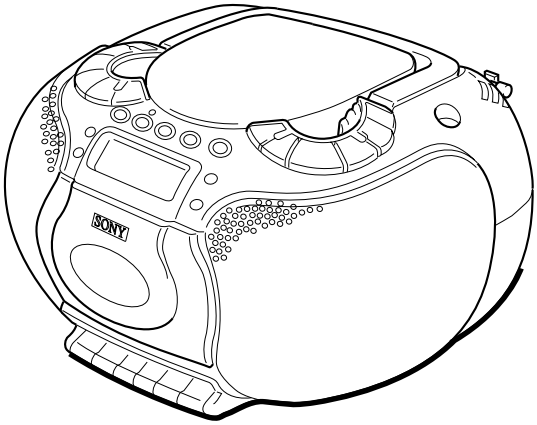
CFD-E55

SERVICE MANUAL

US Model
Canadian Model
E Model

Ver 1.0 1999. 08



CD Section	Model Name Using Similar Mechanism	CFD-Z500
	CD Mechanism Type	KSM-213CDM
	Optical Pick-up Name	KSS-213C
TAPE Section	Model Name Using Similar Mechanism	CFD-Z500
	Tape Transport Mechanism Type	MF-Z500-117

SPECIFICATIONS

AUDIO POWER SPECIFICATIONS (US only)

POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 3.2-ohm loads, both channels driven from 100 - 10,000 Hz; rated 1.5 W per channel-minimum RMS power, with no more than 10 % total harmonic distortion in AC operation.

Other Specifications

CD player section

System
Compact disc digital audio system
Laser diode properties
Material: GaAlAs
Wave length: 780 nm
Emission duration: Continuous
Laser output: Less than 44.6 µW
(This output is the value measured at a distance of about 200 mm from the objective lens surface on the optical pick-up block with 7 mm aperture.)
Spindle speed
200 r/min (rpm) to 500 r/min (rpm) (CLV)
Number of channels
2
Frequency response
20 - 20,000 Hz +0/–0.5 dB
Wow and flutter
Below measurable limit

Radio section

Frequency range
FM: 87.6 - 108 MHz
AM: 530 - 1,710 kHz
Aerials
FM: Telescopic aerial
AM: Built-in ferrite bar aerial

Cassette-corder section

Recording system
4-track 2 channel stereo
Fast winding time
Approx. 120 sec. with Sony cassette C-60
Frequency response
TYPE I (normal): 70 - 13,000 Hz

General

Speaker
Full range: 8 cm (3 ¼ in.) dia., 3.2 ohms, cone type (2)
Outputs
Headphones jack (stereo minijack)
For 16 - 68 ohms impedance headphones
Power output (excluding for US model)
2 W + 2 W (at 3.2 ohms, 10 % harmonic distortion in AC operation)
Power requirements
For CD radio cassette-corder:
120 V AC, 60 Hz
9 V DC, 6 size D (R20) batteries
For memory back-up:
4.5 V DC, 3 size AA (R6) batteries
Power consumption
AC 17 W
Battery life
For CD radio cassette-corder:

FM recording	
Sony manganese SUM-1 (N): approx. 9 h	
Sony alkaline AM-1 (N): approx. 20 h	
Tape playback	
Sony manganese SUM-1 (N): approx. 6.5 h	
Sony alkaline AM-1 (N): approx. 15 h	
CD playback	
Sony manganese SUM-1 (N): approx. 2.5 h	
Sony alkaline AM-1 (N) : approx. 8.5 h	

Dimensions
Approx. 304 × 169 × 262 mm (w/h/d)
(12 × 6 ¾ × 10 ⅜ inches) (incl. projecting parts)
Mass
Approx. 3.6 kg (7 lb. 15 oz) (incl. batteries)
Supplied accessories
AC power cord (1)
Instruction manual (1)
Warranty card (1)
Design and specifications are subject to change without notice.

CD RADIO CASSETTE-CORDER

MICROFILM

SONY®

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CAUTION
Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

SECTION 1
SERVICING NOTES

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety check before releasing the set to the customer:
Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage.
Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

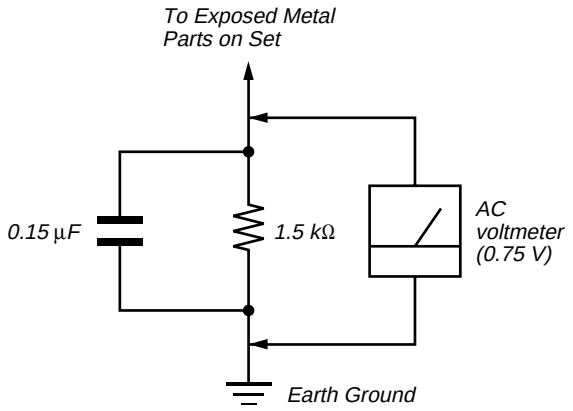
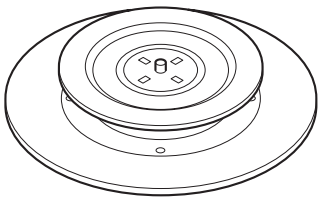


Fig. A. Using an AC voltmeter to check AC leakage.

CHUCK PLATE JIG ON REPAIRING

On repairing CD section, playing a disc without the CD lid, use Chuck Plate Jig.

- Code number of Chuck Plate Jig: X-4918-255-1



NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic break-down because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.
During repair, pay attention to electrostatic break-down and also use the procedure in the printed matter which is included in the repair parts.
The flexible board is easily damaged and should be handled with care.

NOTES ON LASER DIODE EMISSION CHECK

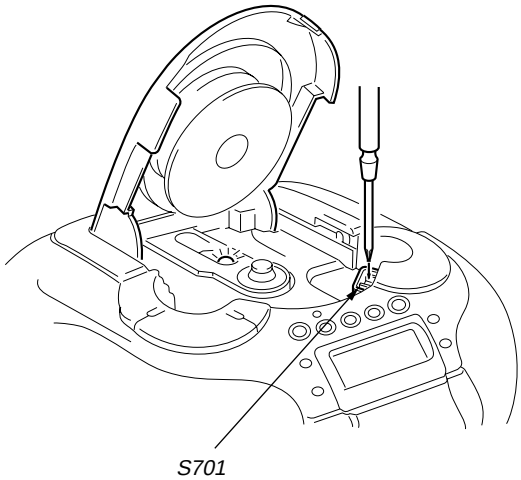
The laser beam on this model is concentrated so as to be focused on the disc reflective surface by the objective lens in the optical pick-up block. Therefore, when checking the laser diode emission, observe from more than 30 cm away from the objective lens.

Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

LASER DIODE AND FOCUS SEARCH OPERATION CHECK

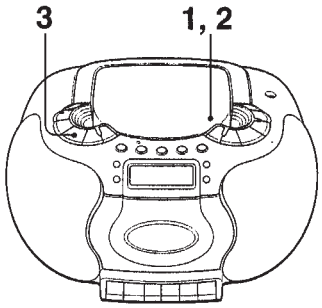
1. Turn POWER switch on with no disc inserted and make Function switch to CD position.
2. Open the lid for CD.
3. Turn on S701 as following figure.
4. Press the ▶II button.
5. Confirm the laser diode emission while observing the objecting lens. When there is no emission, Auto Power Control circuit or Optical Pick-up is broken.
   Objective lens moves up and down three times for the focus search.



SECTION 2
GENERAL

This section is extracted from instruction manual.

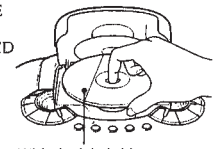
Playing a CD



Connect the supplied AC power cord (see page 26).

1 ⏏PUSH OPEN/ CLOSE

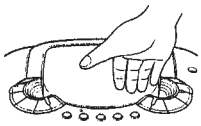
Press ⏏PUSH OPEN/CLOSE down to open the CD compartment and place the CD on the CD compartment.



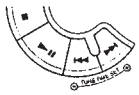
With the label side up

2 ⏏PUSH OPEN/ CLOSE

Close the lid of the CD compartment.



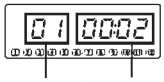
3



Press ▶II.

The player turns on (direct power-on) and plays all the tracks once.

Display

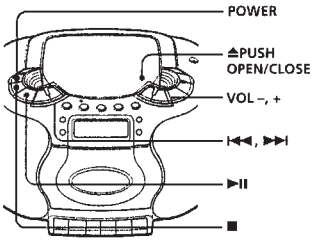


Track number Playing time

Tip

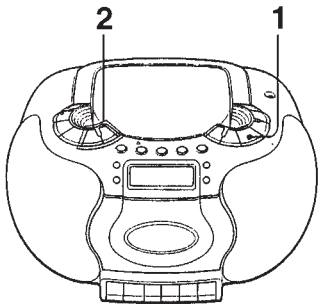
Next time you want to listen to a CD, just press ▶II. The player turns on automatically and starts playing the CD.

Use these buttons for additional operations



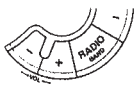
To	Press
adjust the volume	VOL +, –
stop playback	■
pause playback	▶II Press the button again to resume play after pause.
go to the next track	⏭
go back to the previous track	⏮
remove the CD	⏏PUSH OPEN/CLOSE
turn on/off the player	POWER

Listening to the radio



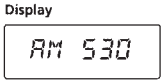
Connect the supplied AC power cord (see page 26).

1

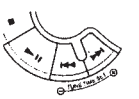


Press RADIO BAND until the band you want appears in the display (direct power-on).

Display



2

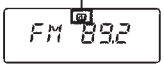


Hold down TUNE TIME SET + or – until the frequency digits begin to change in the display.

The player automatically scans the radio frequencies and stops when it finds a clear station.

If you can't tune in a station, press the button repeatedly to change the frequency step by step.

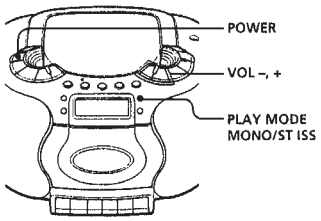
Indicates an FM stereo broadcast



Tips

- If the FM broadcast is noisy, press PLAY MODE •MONO/ST ISS until "Mono" appears in the display and the radio will play in monaural.
- Next time you want to listen to the radio, just press RADIO BAND. The player turns on automatically and starts playing the previous station.

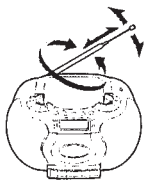
Use these buttons for additional operations



To	Press
adjust the volume	VOL +, –
turn on/off the radio	POWER

To improve broadcast reception

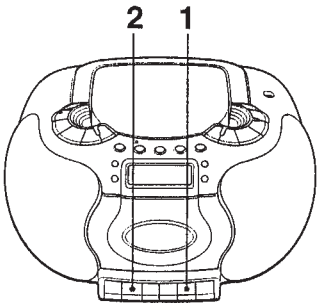
Reorient the antenna for FM. Reorient the player itself for AM.



for FM

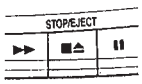
for AM

Playing a tape

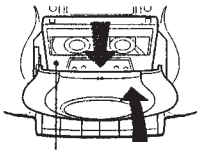


Connect the supplied AC power cord (see page 26).

1

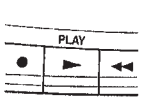


Press ■⏏ to open the tape compartment and insert a recorded tape. Use TYPE I (normal) tape only. Close the compartment.



With the side you want to play facing you

2



Press ►.

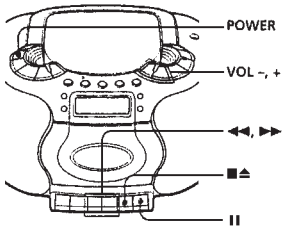
The player turns on (direct power-on) and starts playing.

Display

Tip

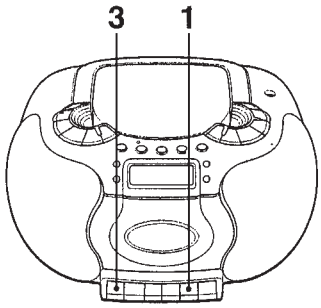
Next time you want to listen to a tape, just press ►. The player turns on automatically and starts playing the tape.

Use these buttons for additional operations



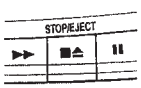
To	Press
adjust the volume	VOL +, –
stop playback	■⏏
fast-forward or rewind the tape	►► or ◄◄
pause playback	II Press the button again to resume play after pause.
eject the cassette	■⏏
turn on/off the player	POWER

Recording on a tape

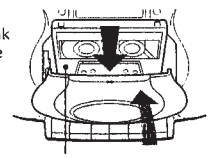


Connect the supplied AC power cord (see page 26).

1

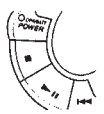


Press ■⏏ to open the tape compartment and insert a blank tape. Use TYPE I (normal) tape only.



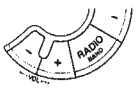
With the side you want to record on facing you

2



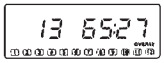
Select the program source you want to record.

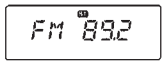
To record from the CD player, insert a CD (see page 4) and press ■ on the CD section.



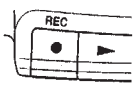
To record from the radio, tune in the station you want (see page 6).

Display





3

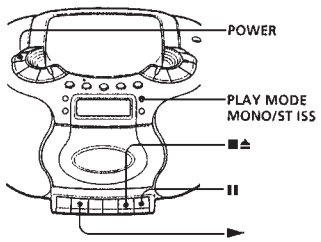


Press ● to start recording (► is depressed automatically).

Tips

- Adjusting the volume or the audio emphasis (see page 27) will not affect the recording level.
- If the AM program makes a whistling sound after you've pressed ● in step 3, press PLAY MODE• MONO/ST ISS (Interference Suppress switch) repeatedly until the noise is at a minimum.
- For the best results, use the AC power as a power source.
- To erase a recording, proceed as follows:
  1 Insert the tape whose recording you want to erase.
  2 Press II.
  3 Press ►.
  4 Press ●.
  5 Press II.

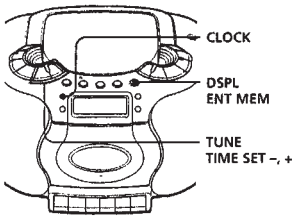
Use these buttons for additional operations



To	Press
stop recording	■⏏
pause recording	II Press the button again to resume recording.
turn on/off the player	POWER

Setting the clock

"– –:– –" indication appears in the display until you set the clock.

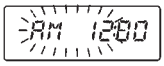


Tip

The time display system:
12-hour system
AM 12:00 = midnight
PM 12:00 = noon

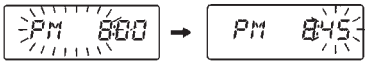
Before you set the clock, connect the power source (see page 26).

1 Press CLOCK for 2 seconds until the hour digit flashes.



2 Press TUNE TIME SET + or – until you set the current hour. Then press DSPL ENT MEM.

The minute digits flash. Set the minutes by pressing TUNE TIME SET + or – until the correct minute is displayed.

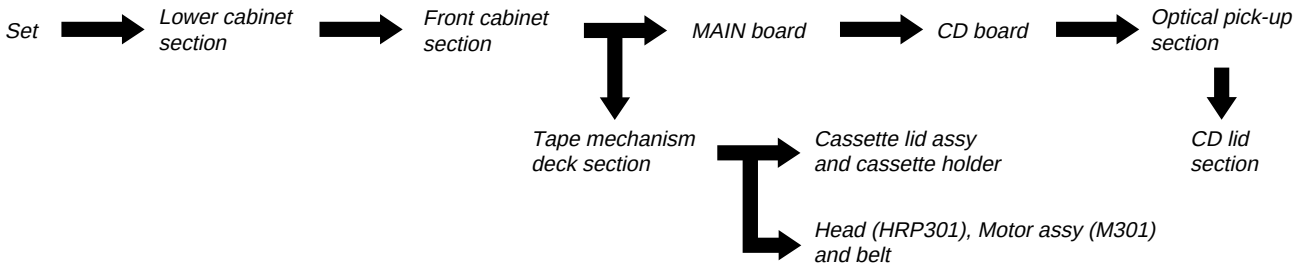


3 Press DSPL ENT MEM.

The clock starts from 00 seconds.

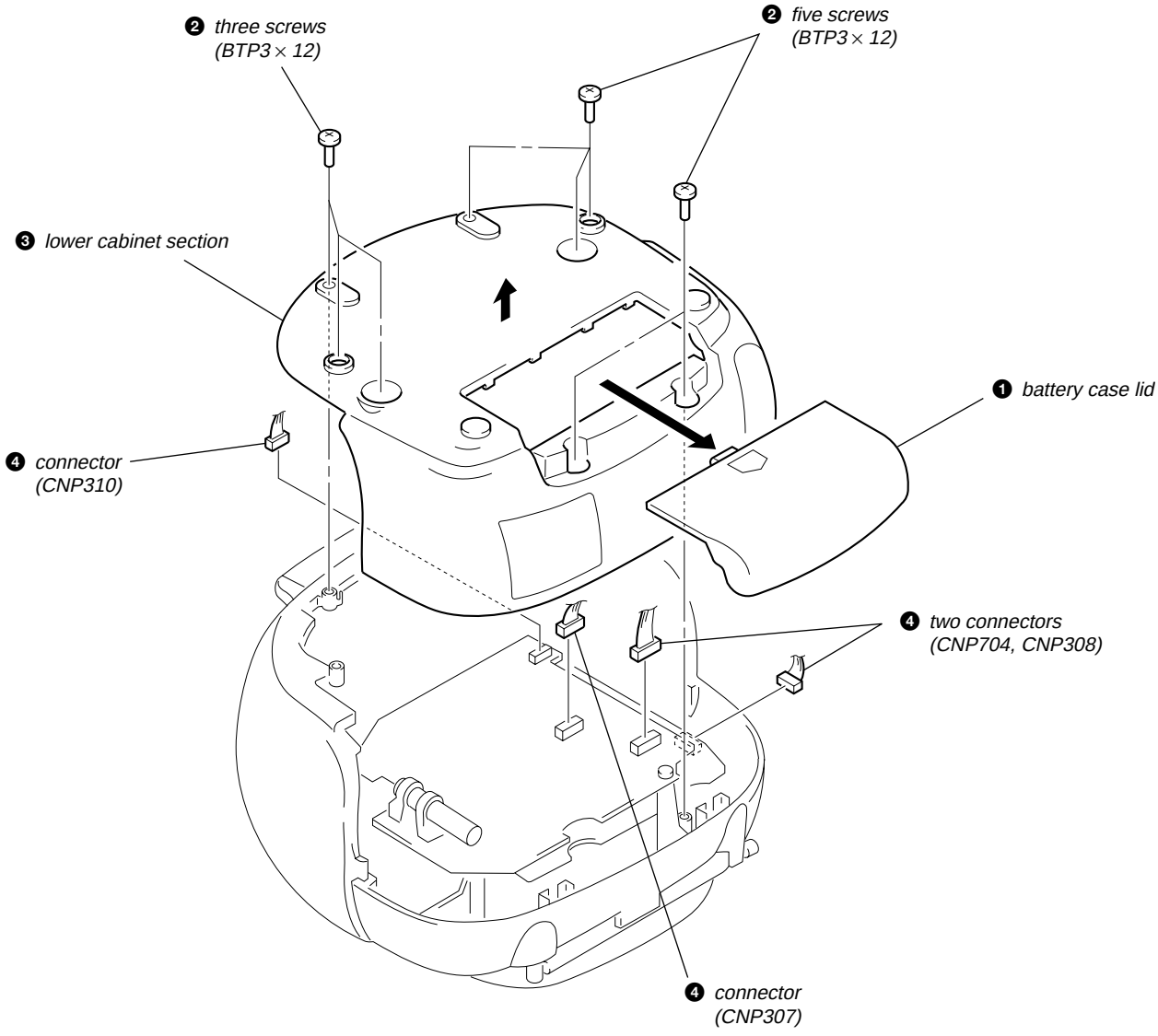
SECTION 3
DISASSEMBLY

• This set can be disassembled in the order shown below.

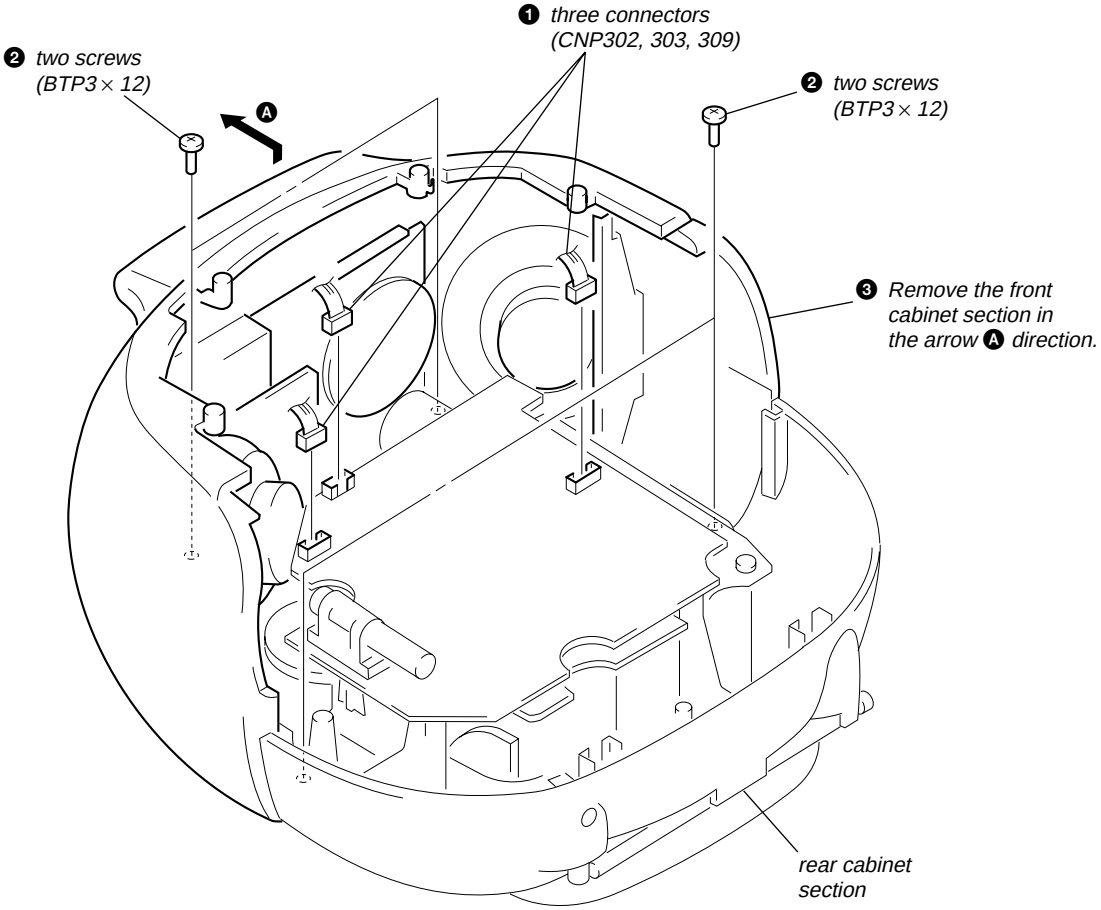


Note: Follow the disassembly procedure in the numerical order given.

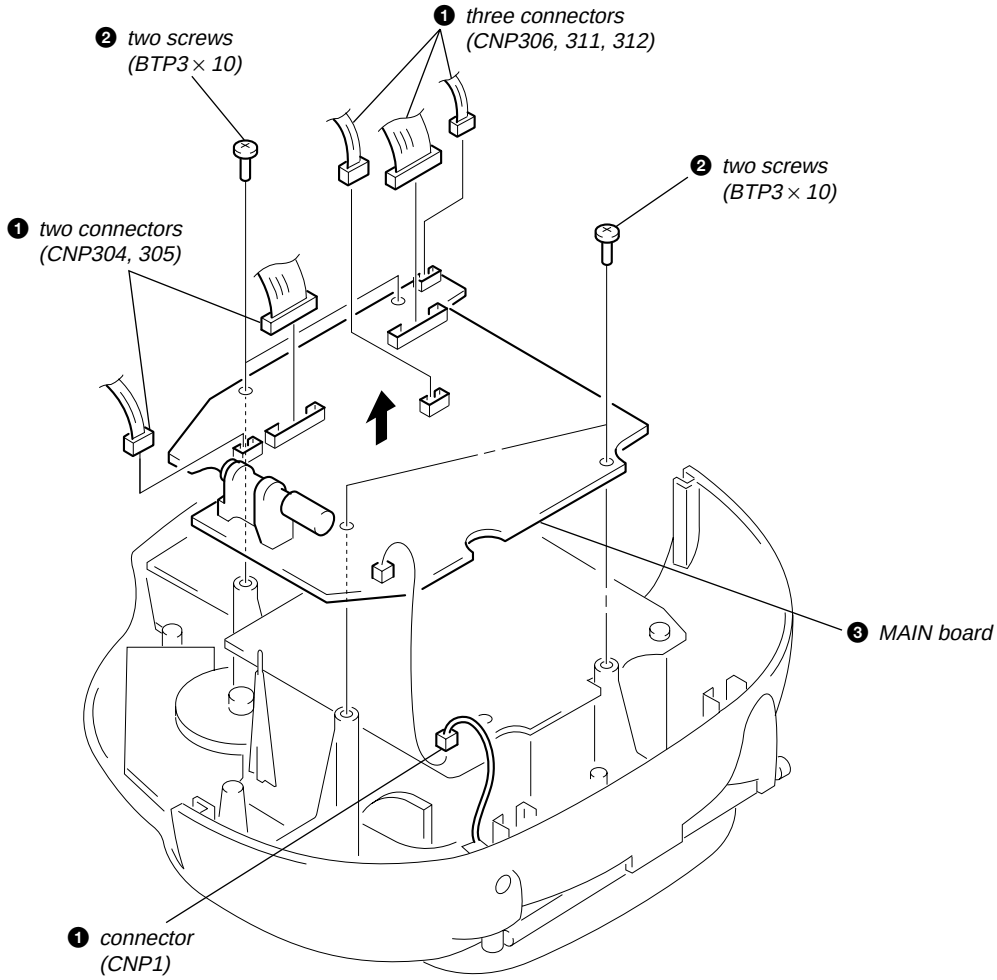
LOWER CABINET SECTION


❷ three screws (BTP3 × 12)
❷ five screws (BTP3 × 12)
❸ lower cabinet section
❶ battery case lid
❹ connector (CNP310)
❹ two connectors (CNP704, CNP308)
❹ connector (CNP307)

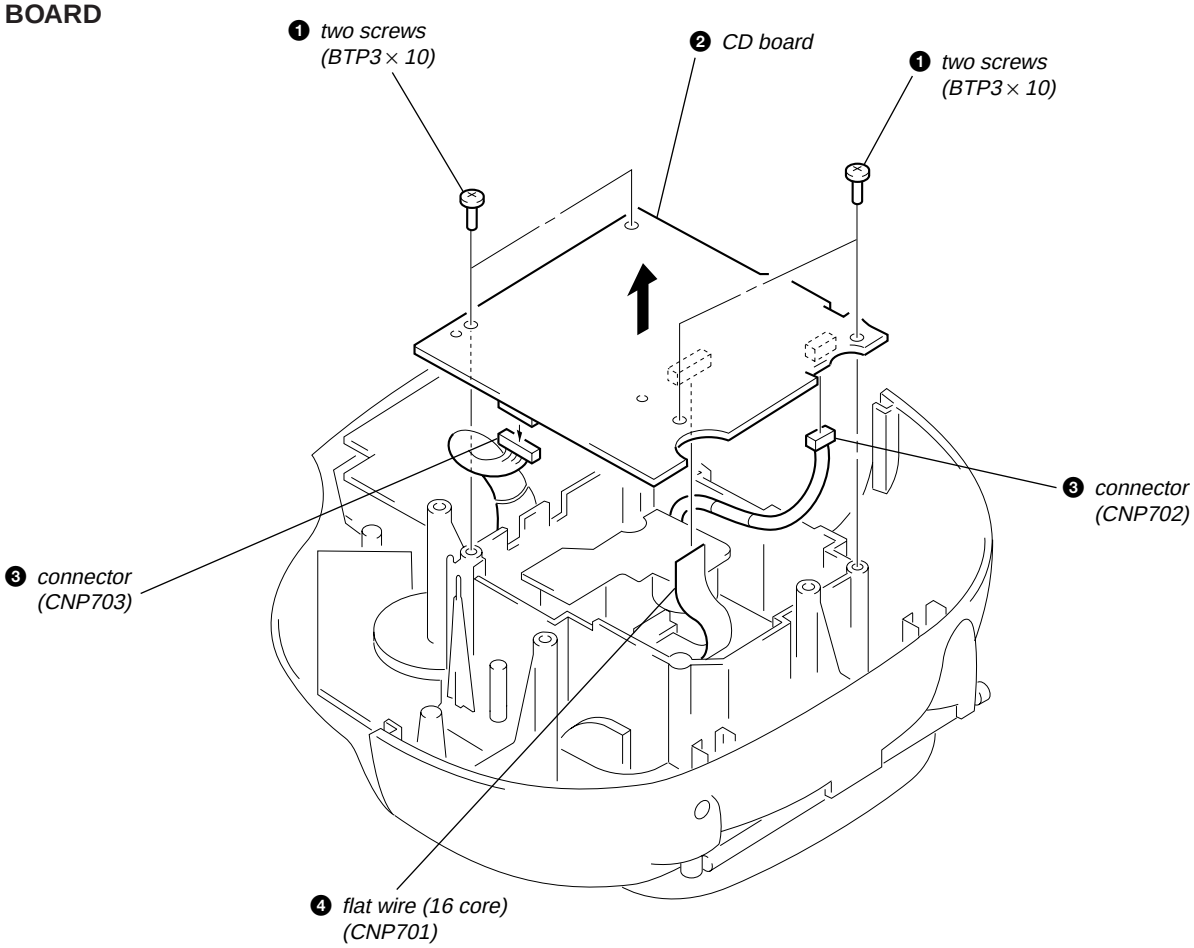
FRONT CABINET SECTION



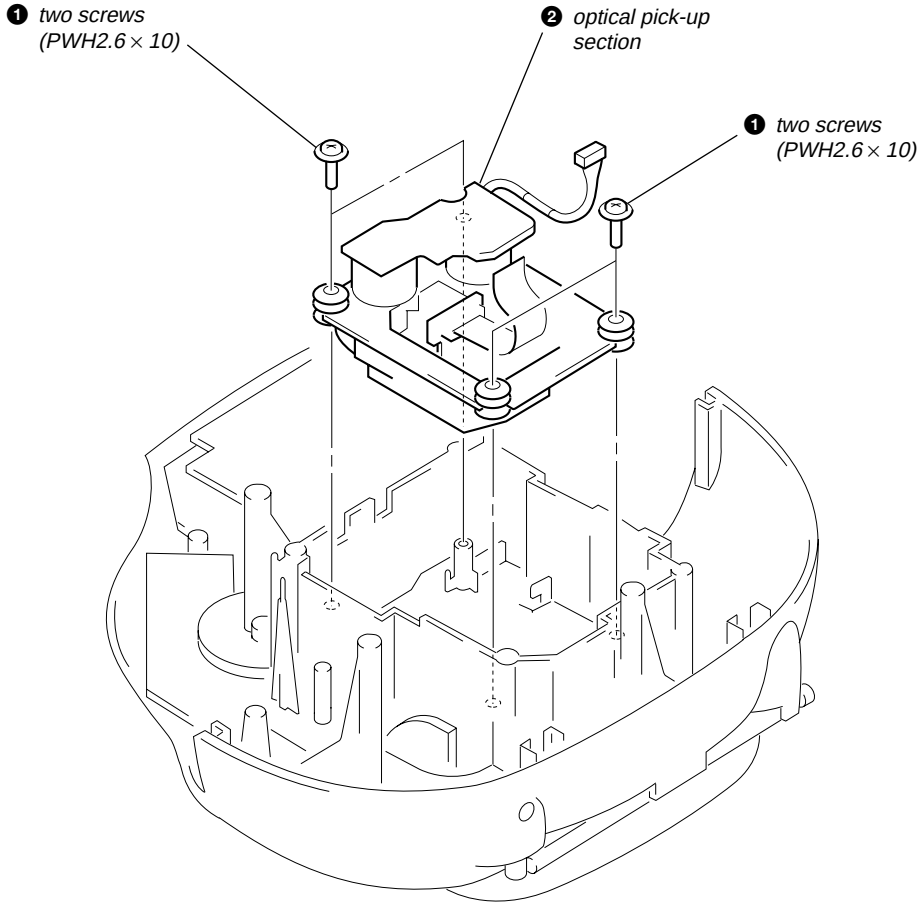
MAIN BOARD



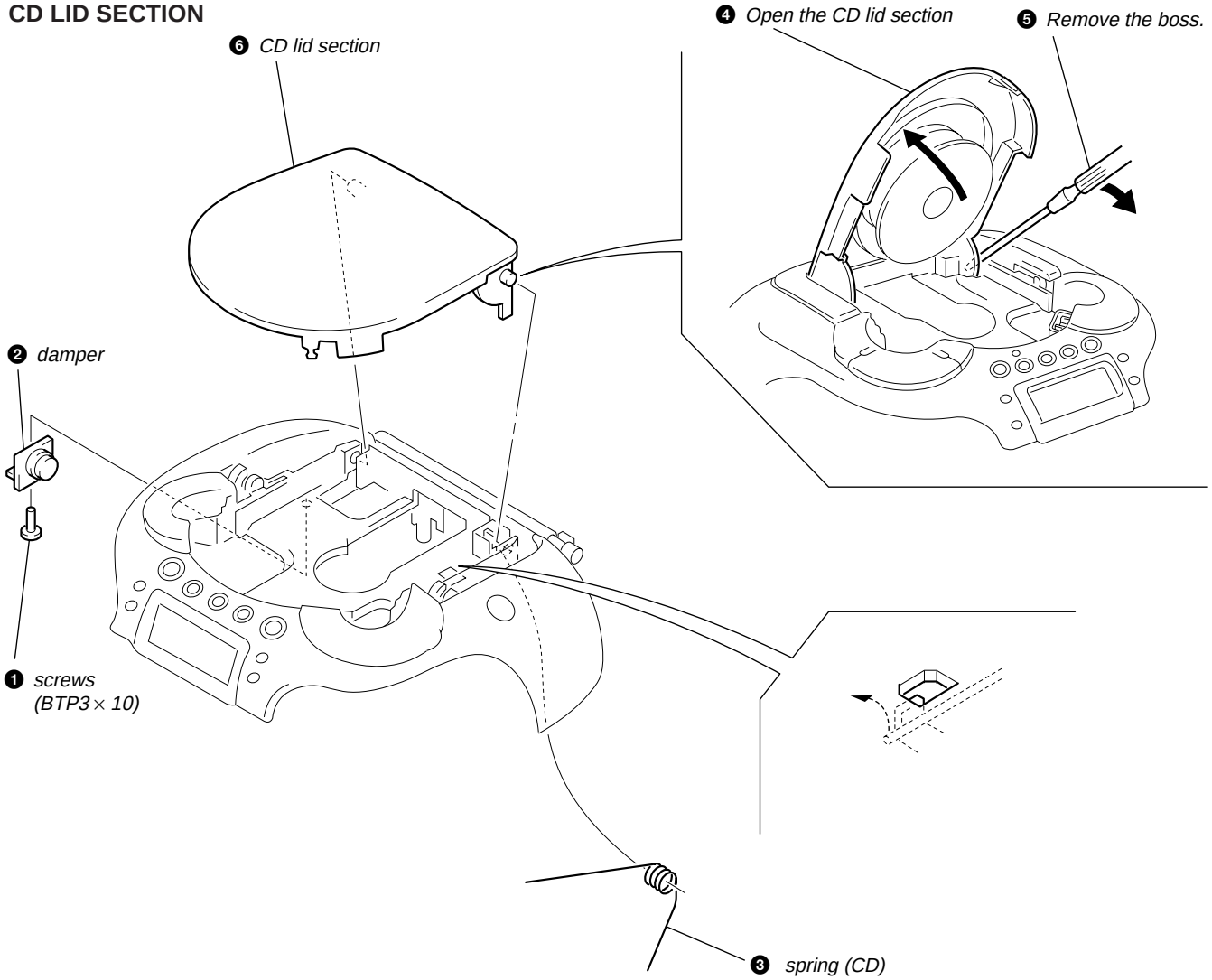
CD BOARD



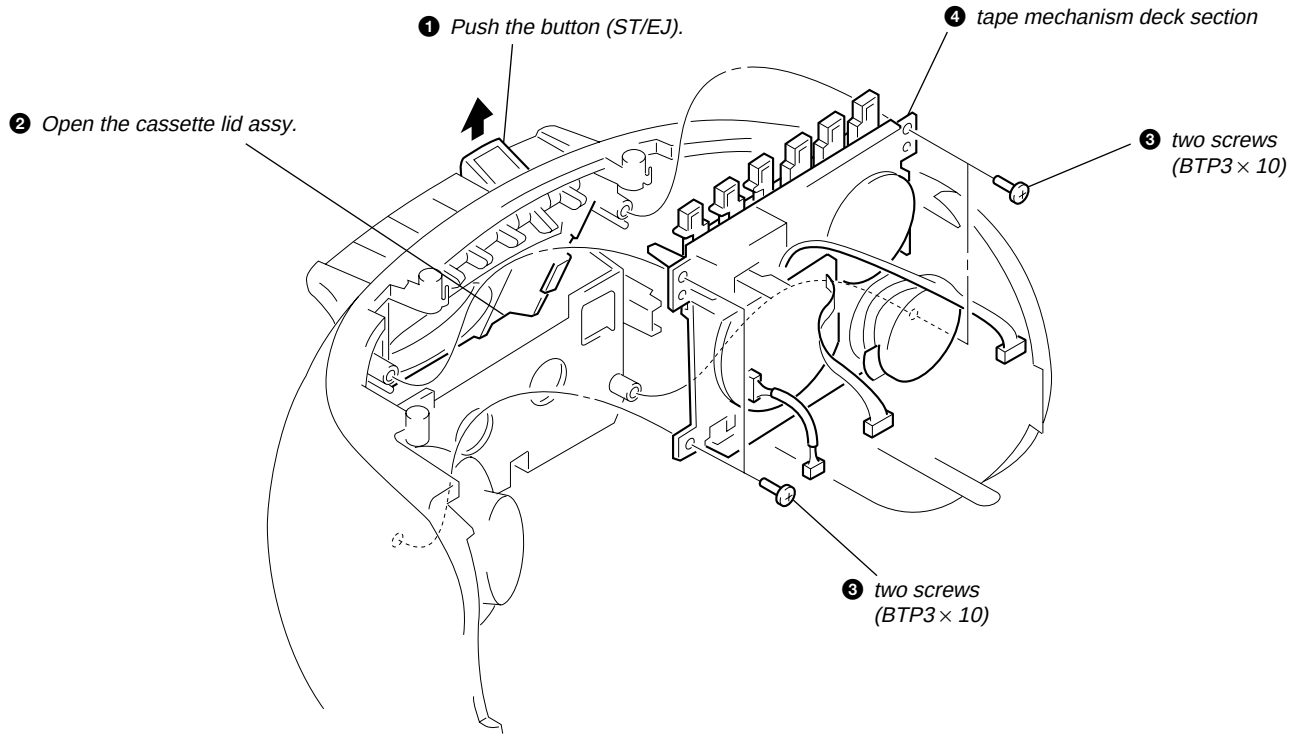
OPTICAL PICK-UP SECTION



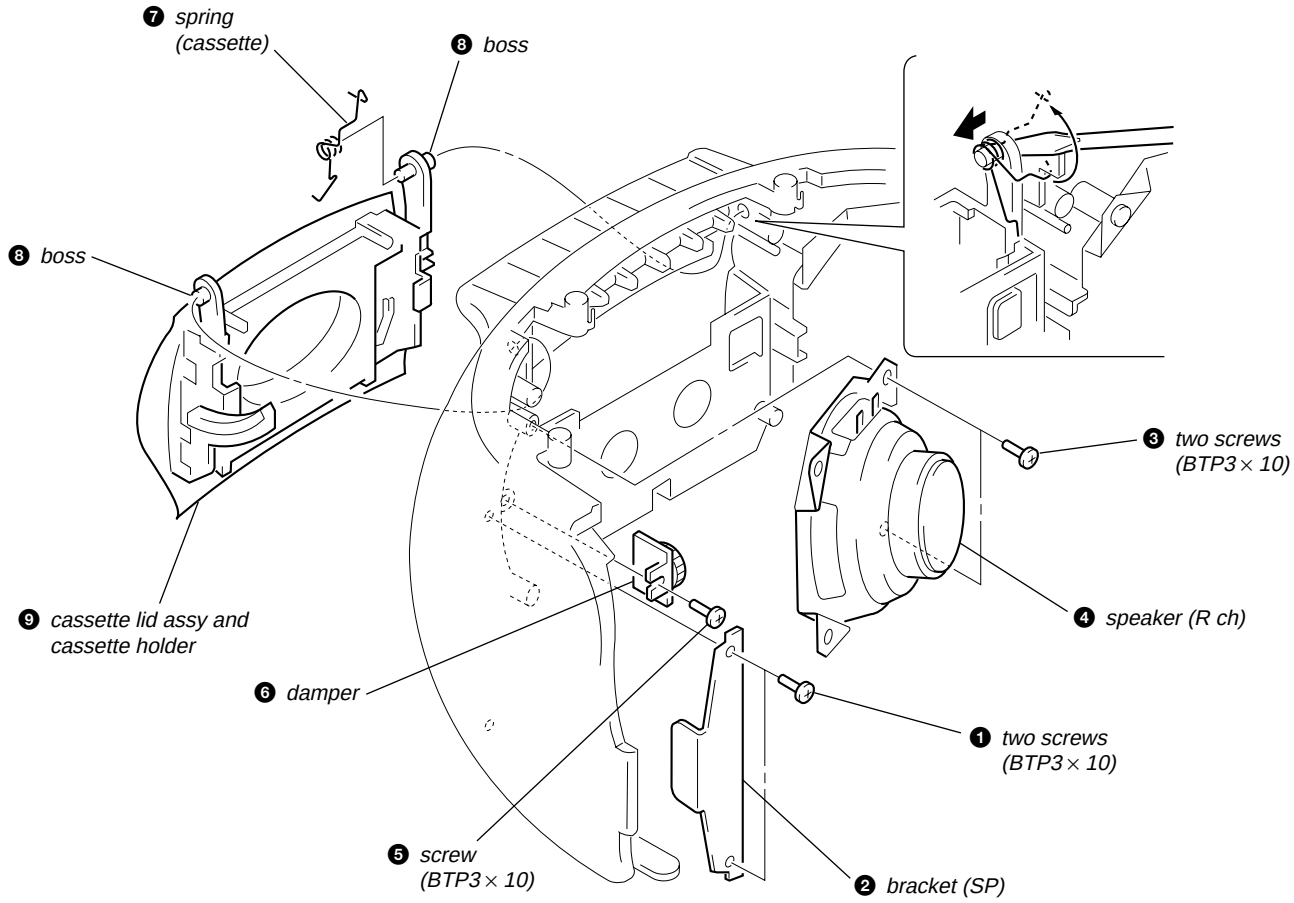
CD LID SECTION



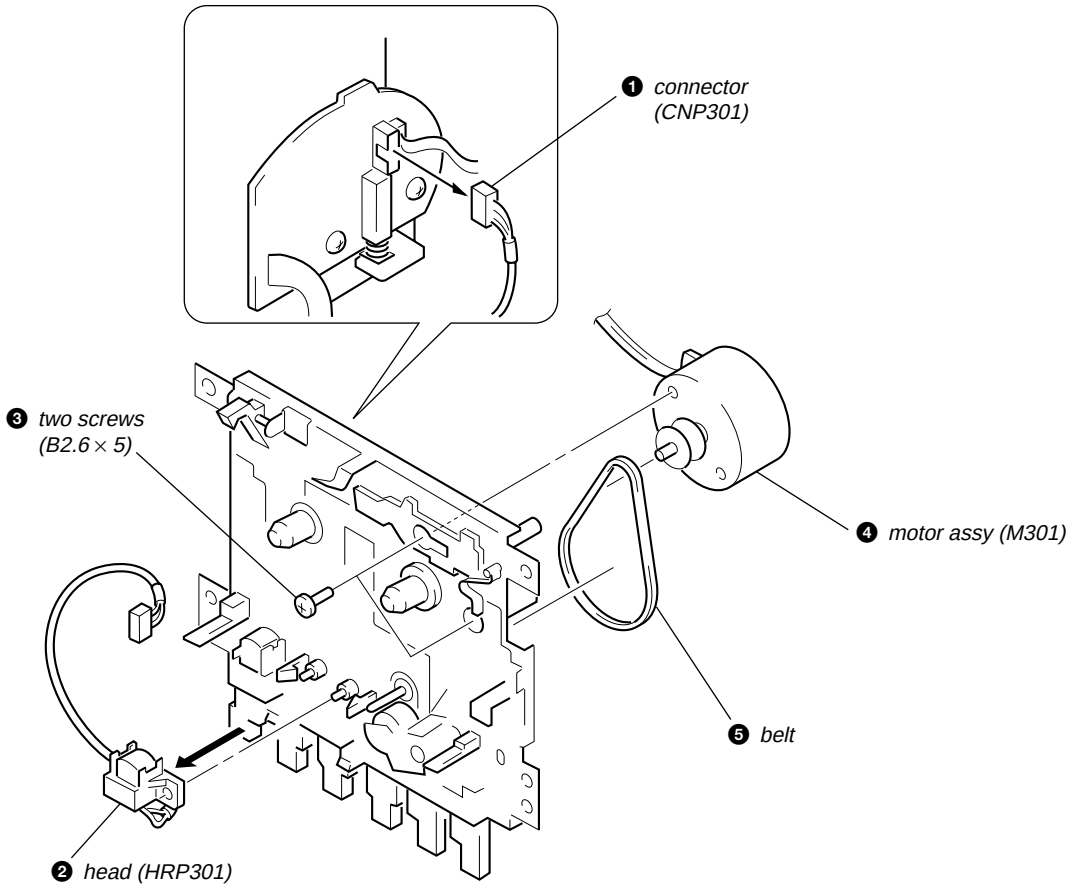
TAPE MECHANISM DECK SECTION



CASSETTE LID ASSY AND CASSETTE HOLDER


❼ spring (cassette)
❽ boss
❽ boss
❸ two screws (BTP3 × 10)
❹ speaker (R ch)
❾ cassette lid assy and cassette holder
❻ damper
❶ two screws (BTP3 × 10)
❺ screw (BTP3 × 10)
❷ bracket (SP)

HEAD (HRP301), MOTOR ASSY (M301) AND BELT



SECTION 4
MECHANICAL ADJUSTMENTS

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab :
   record/playback head　　pinch roller
   erase head　　rubber belts
   capstan　　idlers
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head magnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

• Torque Measurement

Mode	Torque Meter	Meter Reading
FWD	CQ-102C	30 – 70 g•cm (0.42 – 0.97 oz•inch)
FWD Back Tension	CQ-102C	1.5 – 5.5 g•cm (0.021 – 0.076 oz•inch)
FF	CQ-201B	more than 60 g•cm (more than 0.83 oz•inch)
REW	CQ-201B	more than 60 g•cm (more than 0.83 oz•inch)

• Tape Tension Measurement

Mode	Tension Meter	Meter Reading
FWD	CQ-403A	more than 100 g (more than 3.53 oz)

SECTION 5
ELECTRICAL ADJUSTMENTS

PRECAUTION

1. Setting
   SOUND control : OFF

TAPE DECK SECTION | 0 dB=0.775 V

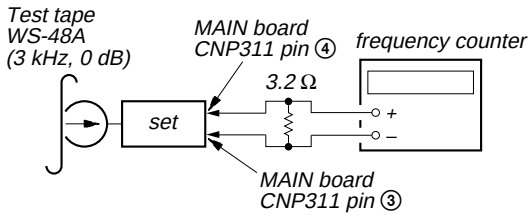
Test tape

Type	Signal	Used for
WS-48A	3 kHz, 0 dB	Tape Speed Adjustment

Tape Speed Adjustment

Setting:

Function: TAPE



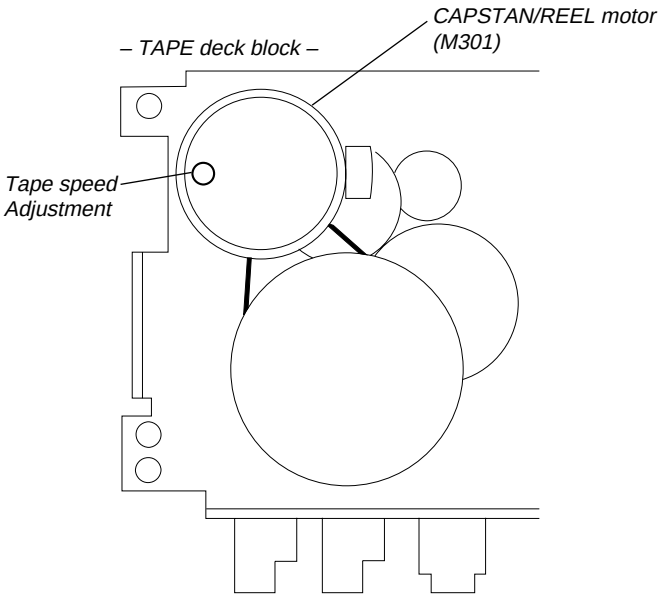
Procedure:

1. Playback WS-48A (tape center) in the FWD state.
2. Adjsut the volume in CAPSTAN/REEL motor (M301) so that the frequency counter reading becomes 3,000 Hz.

Specified Value: 2,985 to 3,015 Hz

3. Confirm that the frequency at the beginning and that at the end of tape winding are between 2,955 to 3,045 Hz.

Adjustment Location:



TUNER SECTION

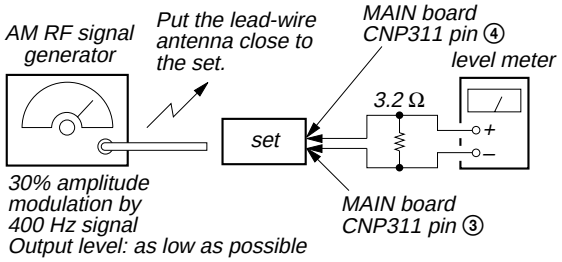
0 dB=1 µV

[AM]

Setting:

Function : RADIO

BAND button : AM

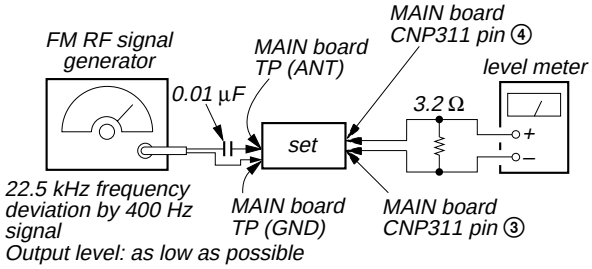


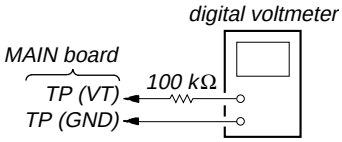
[FM]

Setting:

Function : RADIO

BAND button: FM





- Repeat the procedures in each adjustment several times, and the tracking adjustments should be finally done by the trimmer capacitors.
- Remove FM antenna in FM adjustment.

AM IF ADJUSTMENT	
Adjust for a maximum reading on level meter	
T1	450 kHz

AM VCO VOLTAGE ADJUSTMENT		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
L4	530 kHz	1.0 ± 0.1 V
Confirmation	1,710 kHz	5.0 ± 0.2 V

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L3	620 kHz
CT2	1,400 kHz

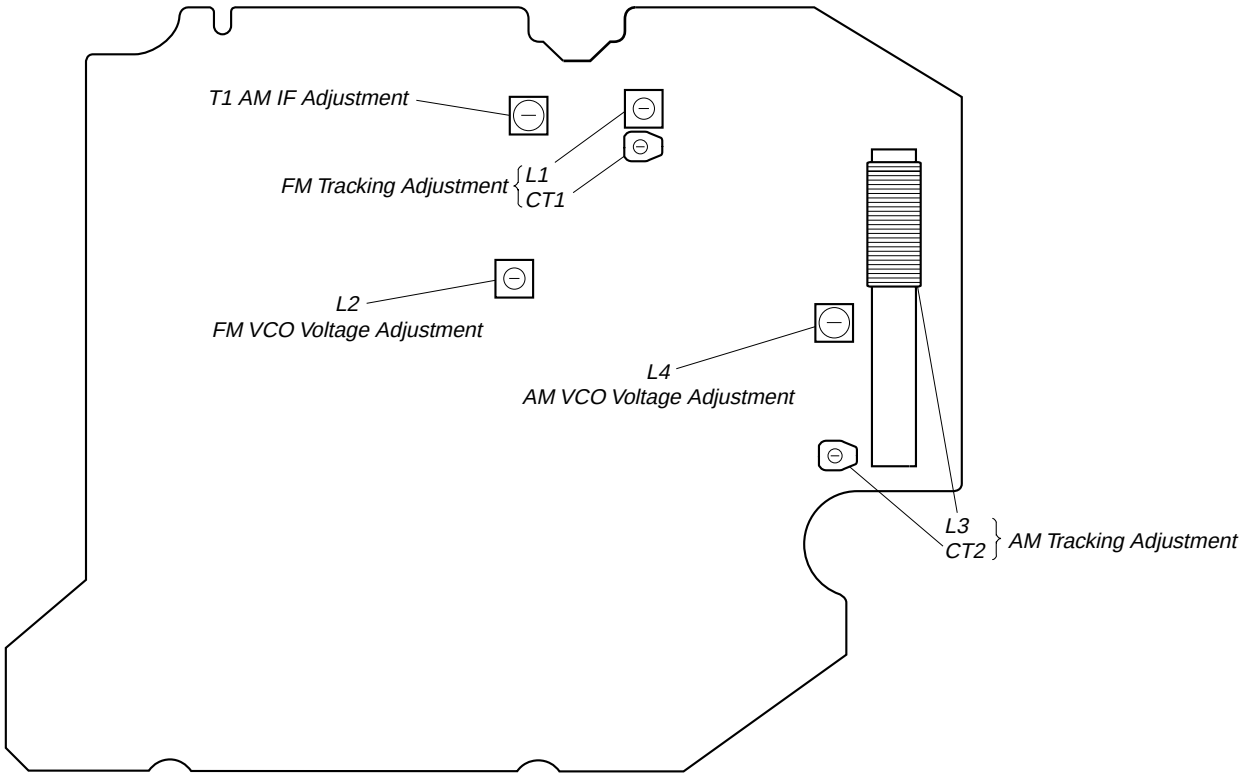
FM VCO VOLTAGE ADJUSTMENT		
Adjustment Part	Frequency Display	Reading on Digital Voltmeter
L2	108 MHz	4.0 ± 0.1 V
Confirmation	87.5 MHz	1.7 ± 0.2 V

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on level meter	
L1	87.5 MHz
CT1	108 MHz

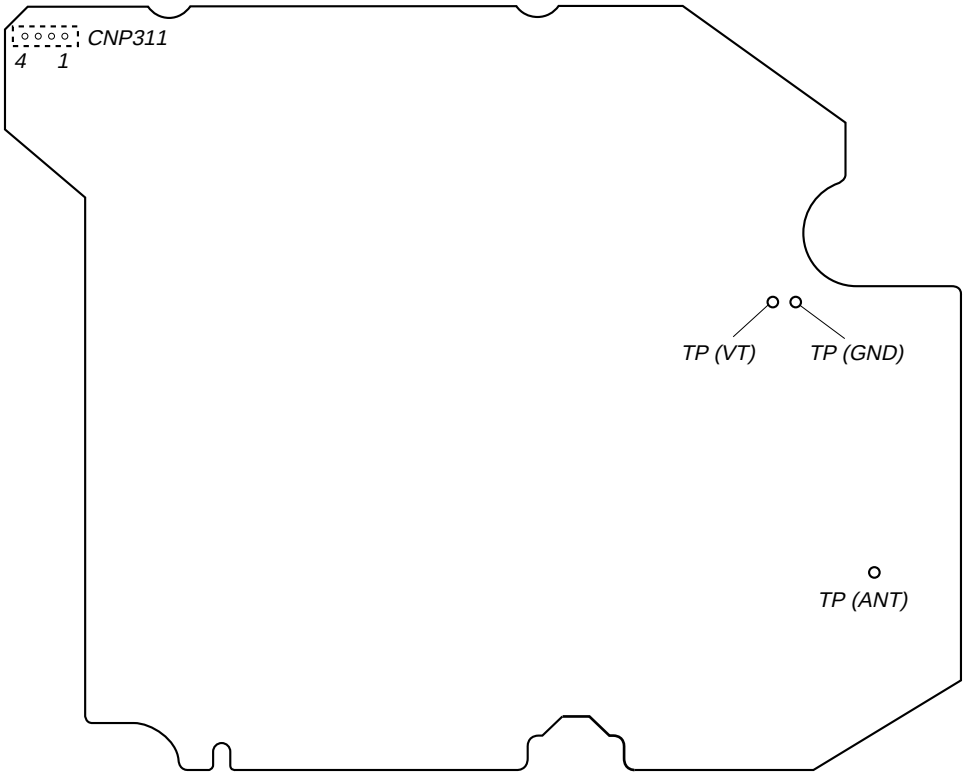
Adjustment Location: MAIN board (See page 14)

Adjustment Location:

– MAIN BOARD (Component Side) –



– MAIN BOARD (Conductor Side) –



CD SECTION

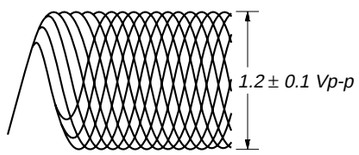
CD section adjustments are done automatically in this set.
In case of operation check, confirm that focus bias.

Focus Bias Check

1. Connect the oscilloscope to TP (RFO) and TP (GND) on the CD board.
2. Insert the disc (YEDS-18). (Part No. : 3-702-101-01)
3. Press the ▶II (CD) button.
4. Confirm that the oscilloscope waveform is as shown in the figure below. (eye pattern)
   A good eye pattern means that the diamond shape (◇) in the center of the waveform can be clearly distinguished.

• RF signal reference waveform (eye pattern)

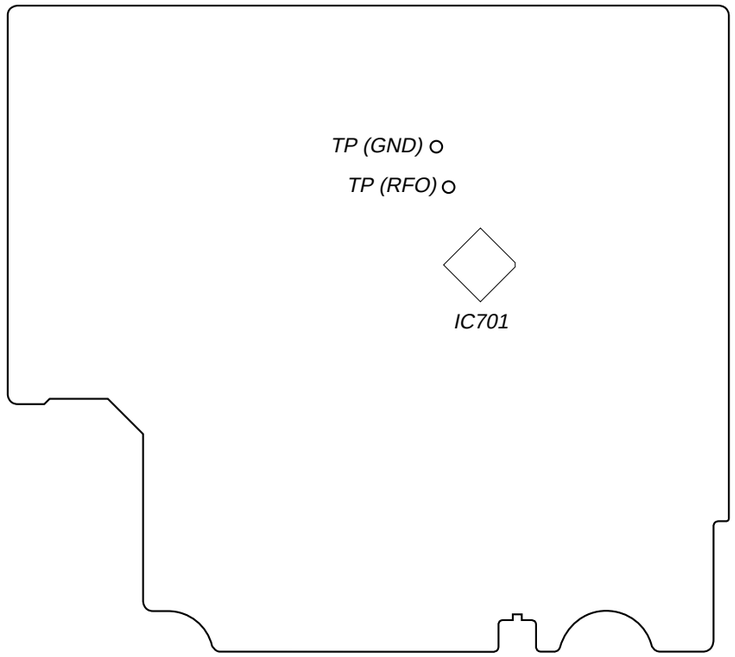
VOLT/DIV: 0.2 V (with the 10: 1 probe in use.)
TIME/DIV: 500 ns



When observing the eye pattern, set the oscilloscope for AC range and raise vertical sensitivity.

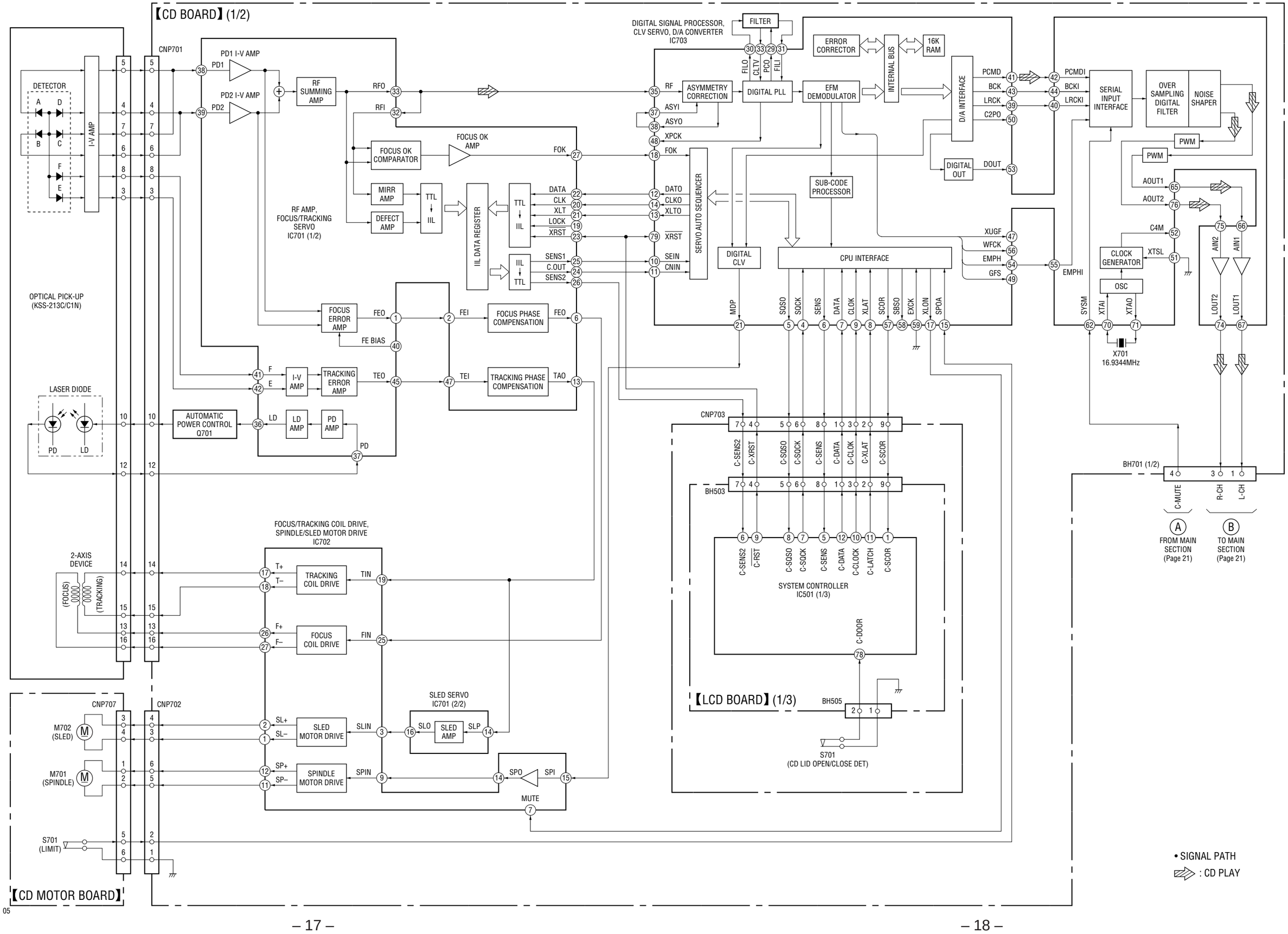
Adjustment Location:

– CD BOARD (Conductor Side) –



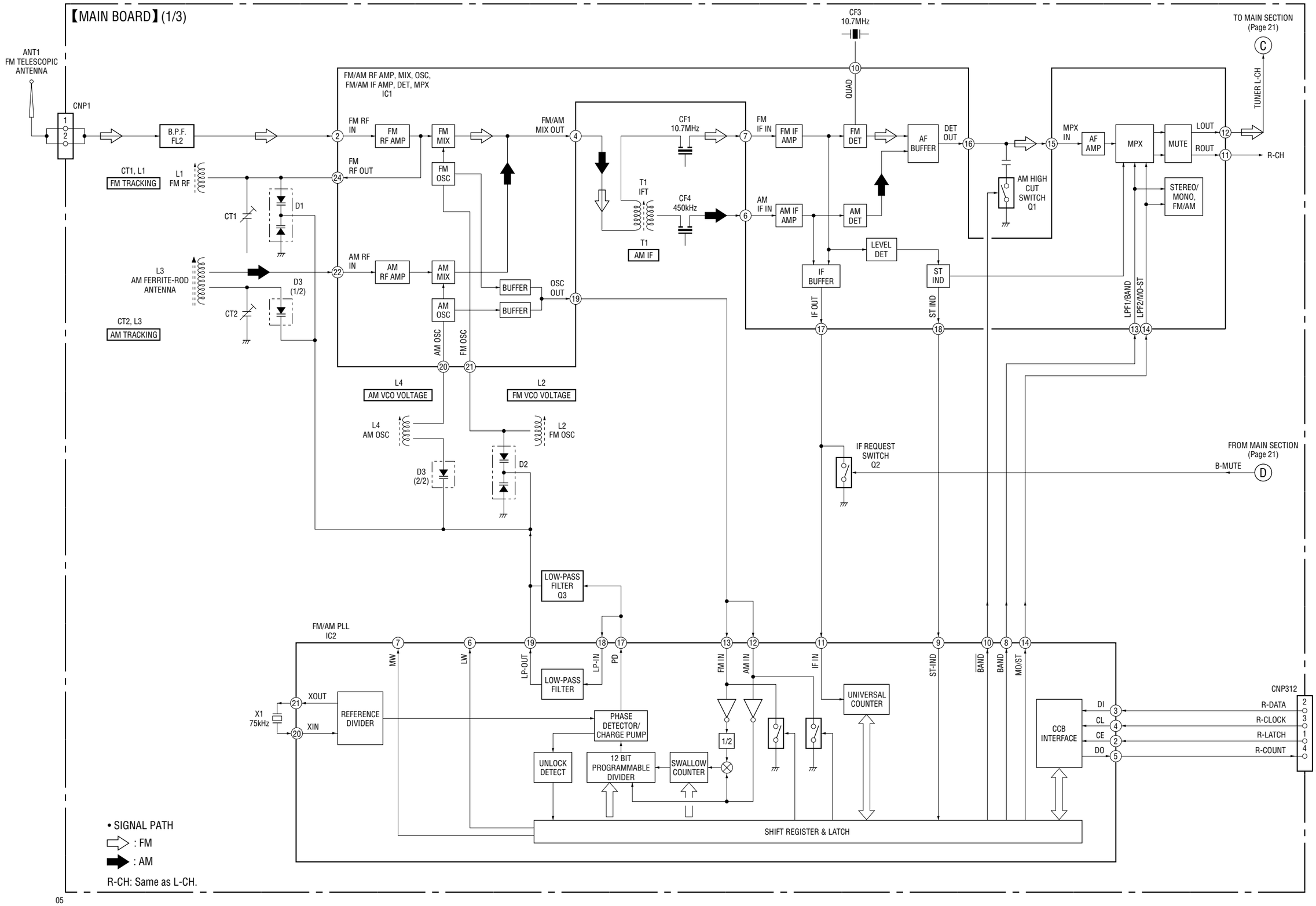
SECTION 6
DIAGRAMS

6-1. BLOCK DIAGRAM – CD Section –

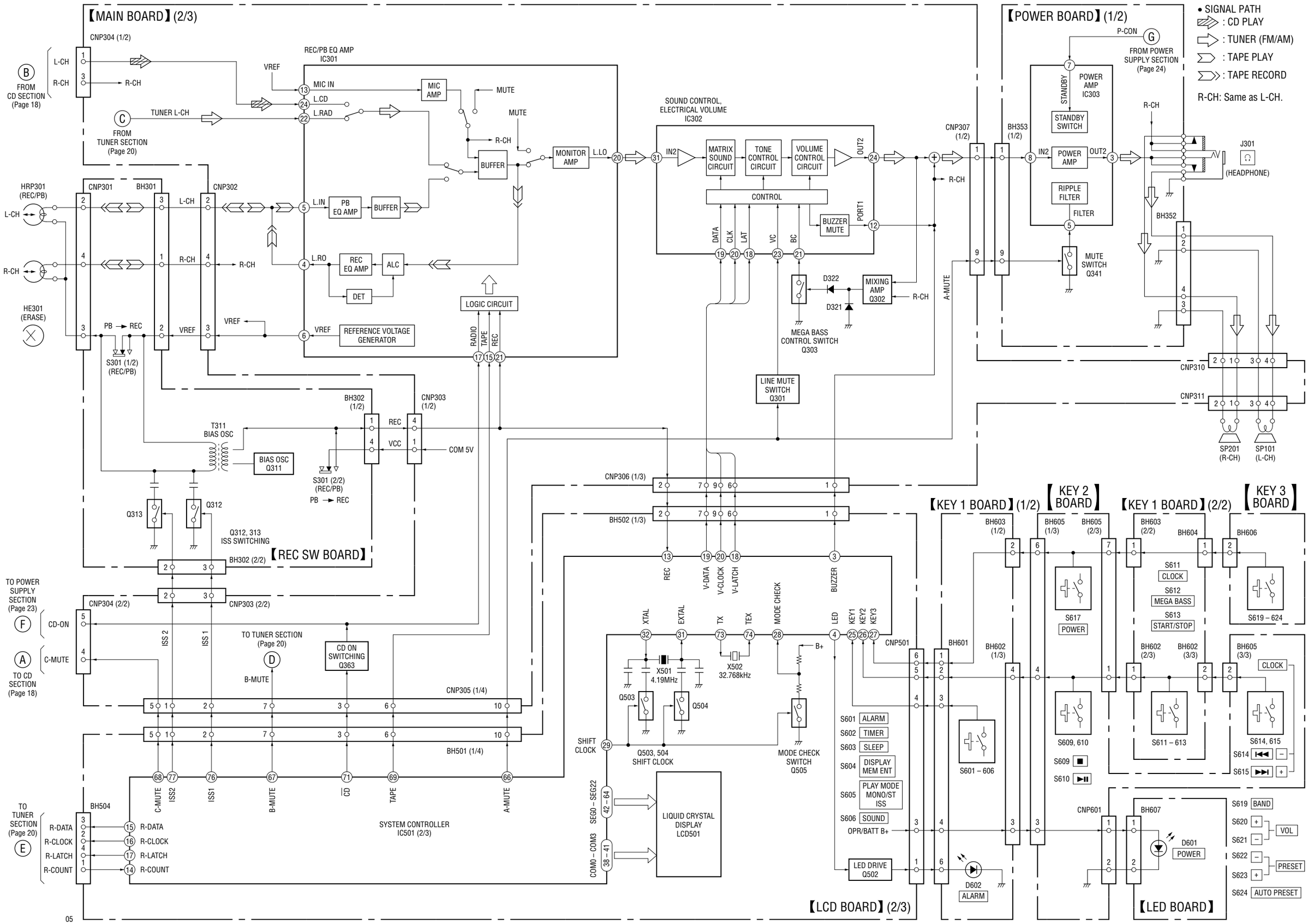


05

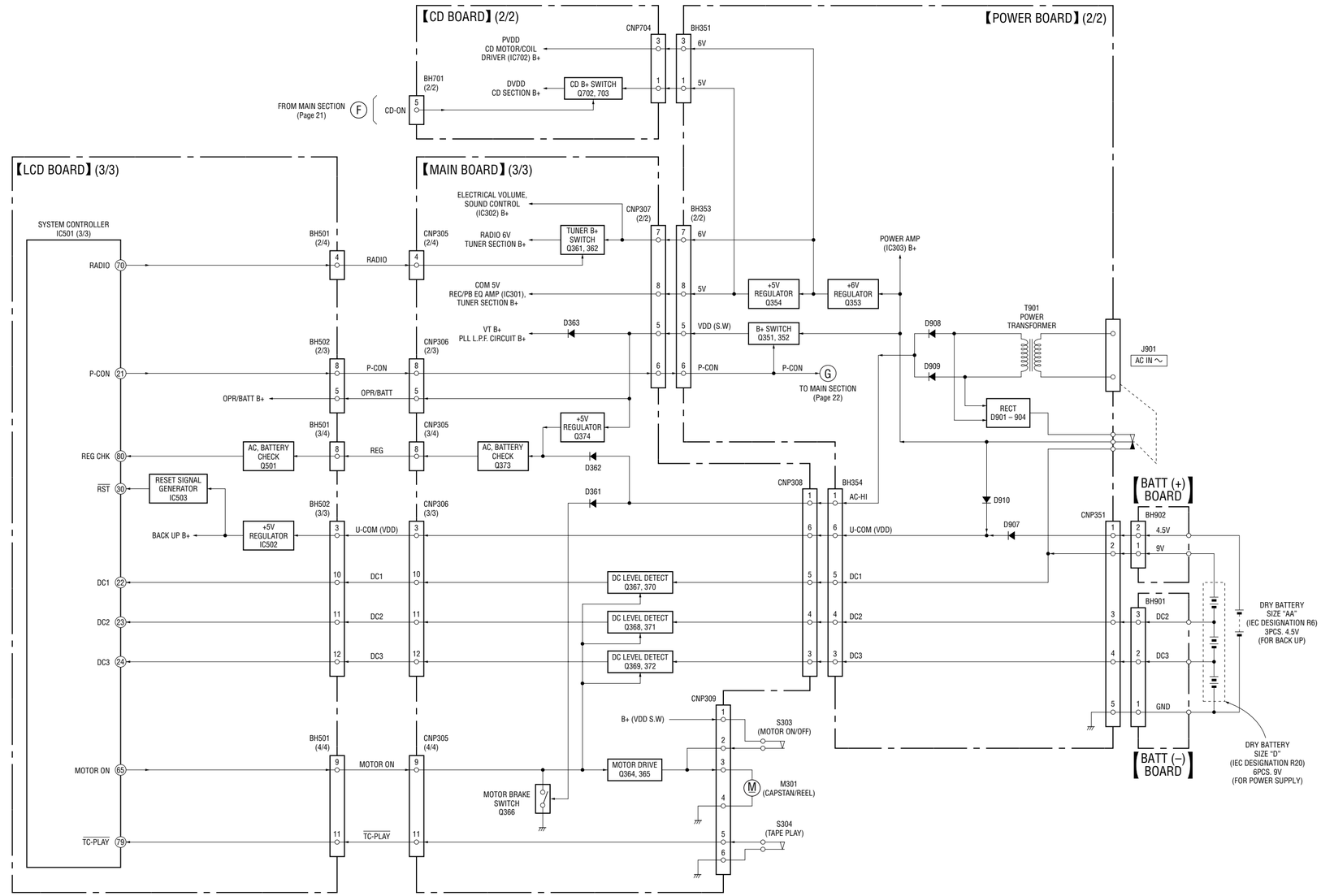
6-2. BLOCK DIAGRAM – TUNER Section –



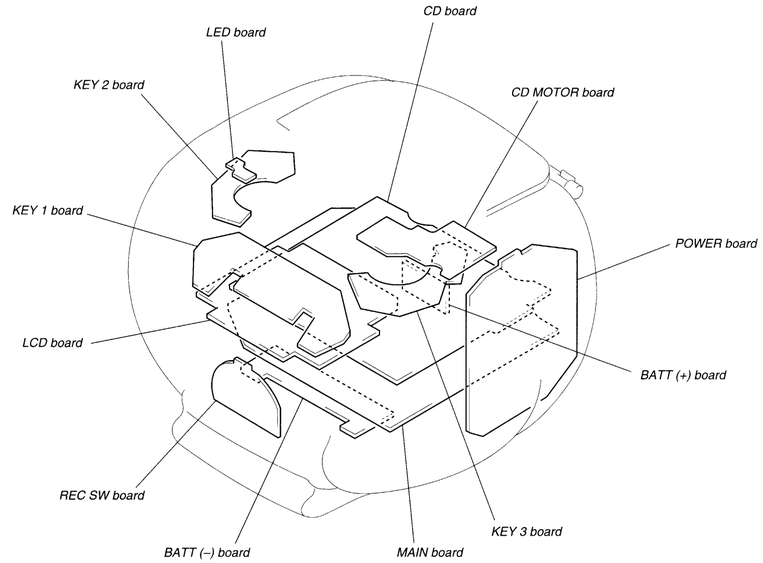
6-3. BLOCK DIAGRAM – MAIN Section –



6-4. BLOCK DIAGRAM – POWER SUPPLY Section –



• **Circuit Boards Location**

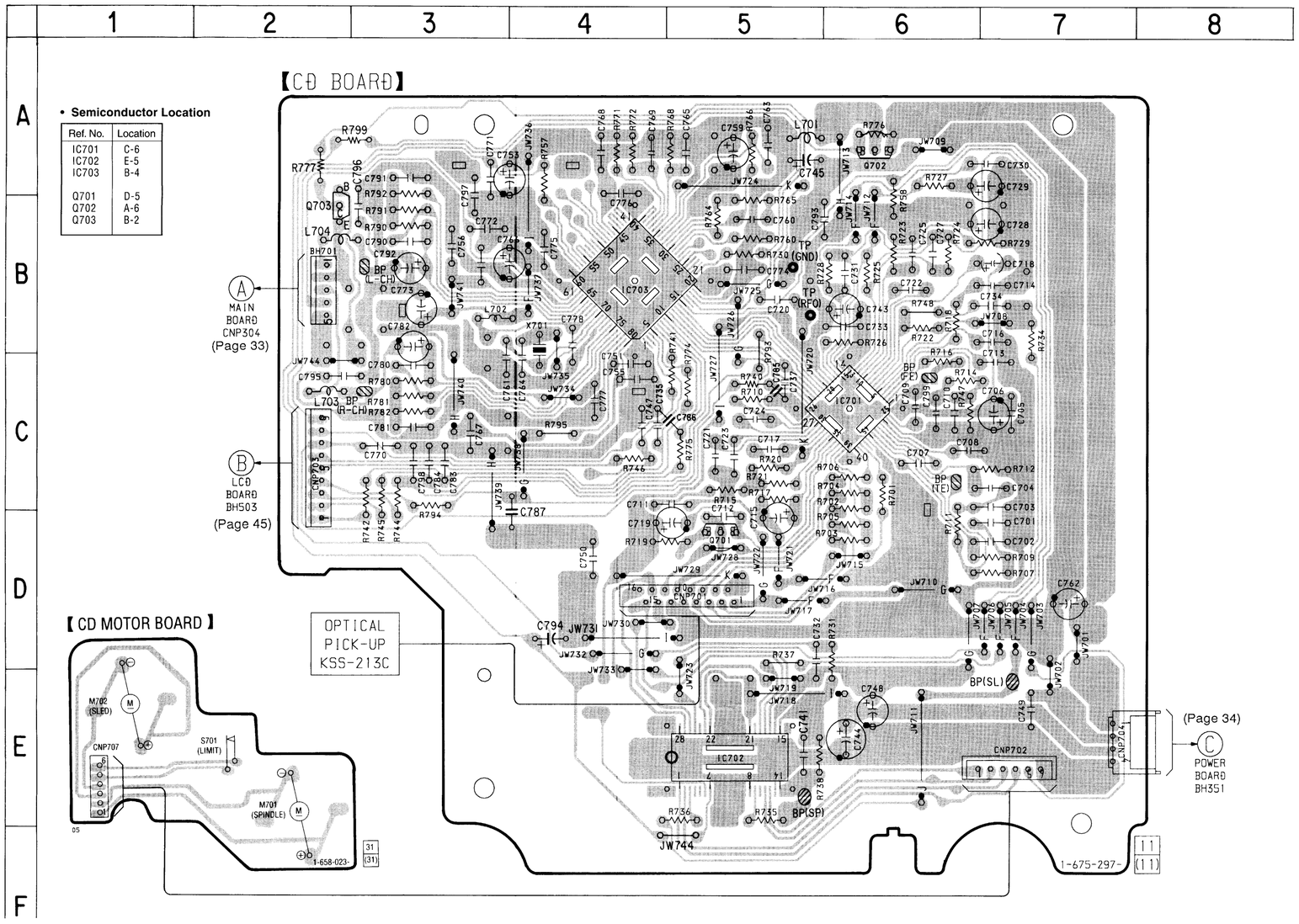


6-5. PRINTED WIRING BOARDS – CD Section –

• **Semiconductor Location**

Ref. No.	Location
IC701	C-6
IC702	E-5
IC703	B-4
Q701	D-5
Q702	A-6
Q703	B-2

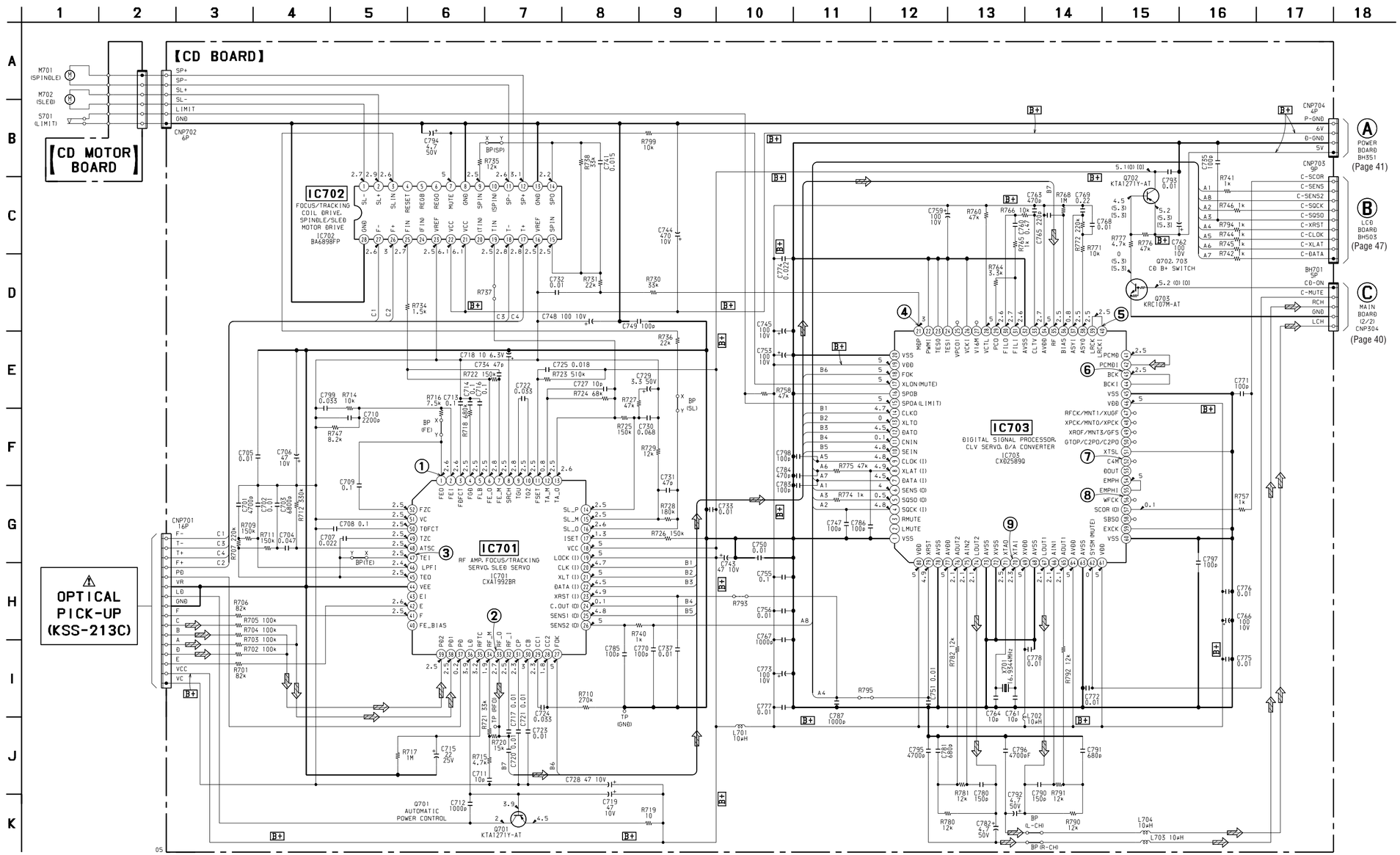
【CD BOARD】



Note on Printed Wiring Boards:
- ○—— : parts extracted from the component side.
- —— : parts extracted from the conductor side.
- ▒▒ : Pattern from the side which enables seeing.

6-6. SCHEMATIC DIAGRAM – CD Section –

• See page 38 for Waveforms. • See page 50 for IC Block Diagrams.



Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.

Note:	**Note:**
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

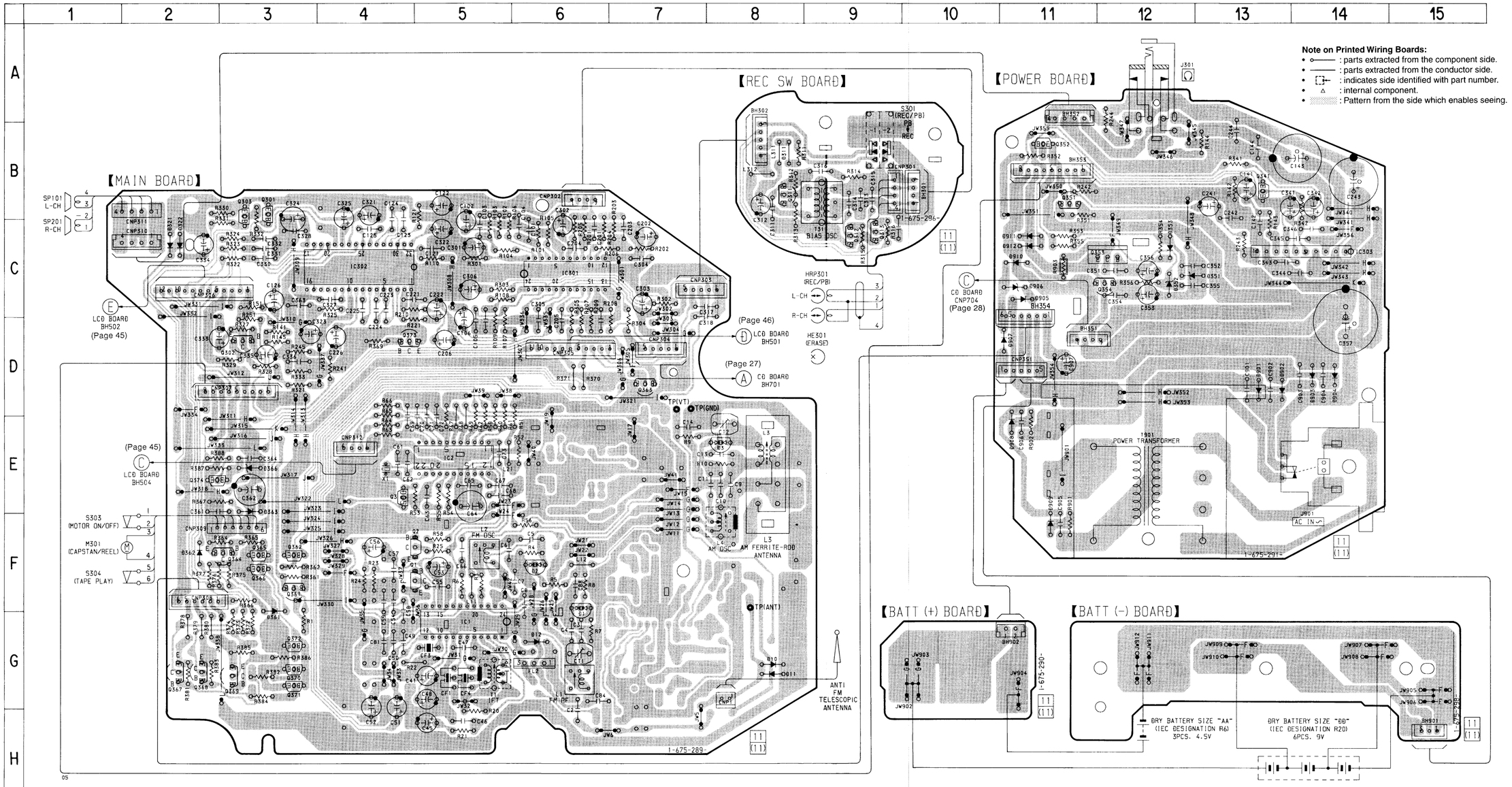
- B+ : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : CD
  ( ) : TUNER
  [ ] : TAPE
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.
- Signal path.
  ⇨ : CD PLAY

6-7. PRINTED WIRING BOARDS – MAIN/POWER SUPPLY Section –

• See page 26 for Circuit Boards Location.

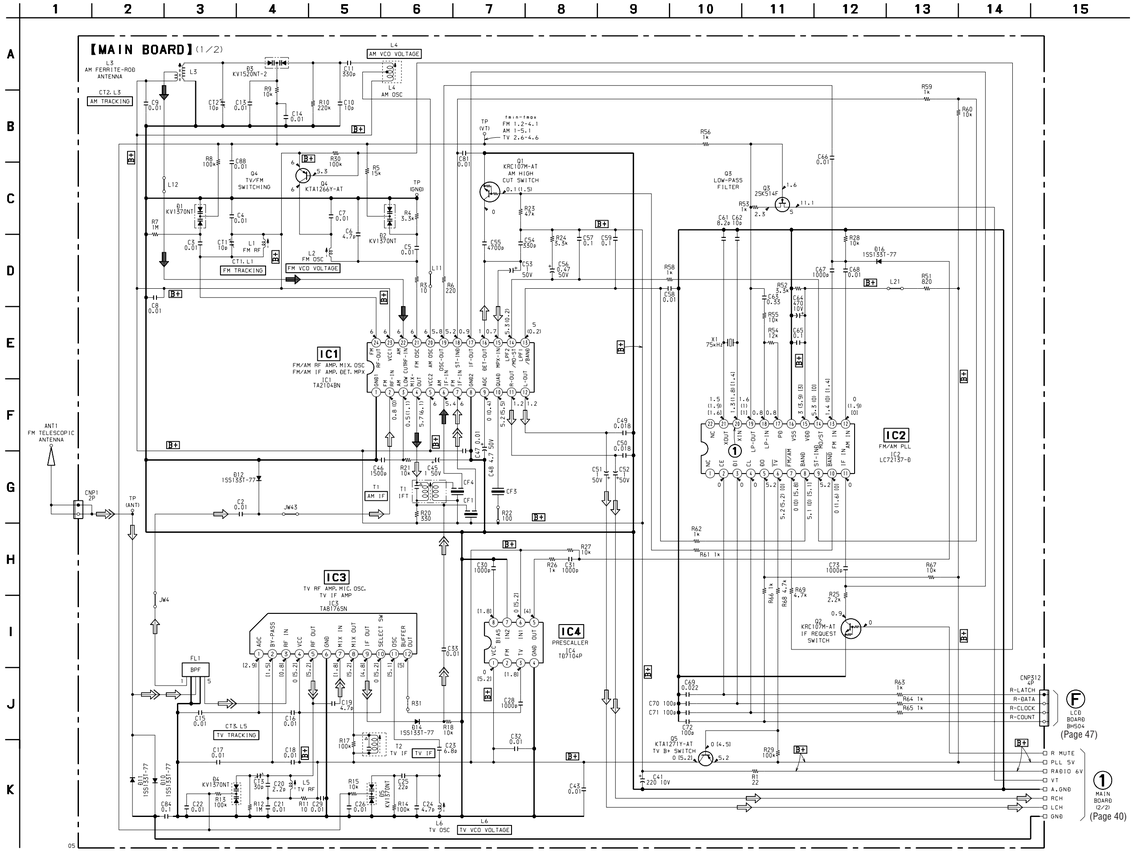
• **Semiconductor Location**

Ref. No.	Location
D1	G-6
D2	F-6
D3	E-8
D10	G-8
D11	G-8
D12	G-6
D321	C-2
D322	C-2
D351	C-12
D352	C-12
D353	C-12
D361	G-3
D362	F-3
D363	E-3
D366	E-3
D901	D-13
D902	D-13
D903	D-14
D904	D-14
D905	C-11
D906	C-11
D907	D-11
D908	E-11
D909	F-11
D910	C-11
D911	C-11
D912	C-11
IC1	G-5
IC2	E-5
IC301	C-6
IC302	C-4
IC303	C-14
Q1	F-5
Q2	F-5
Q3	E-4
Q301	B-3
Q302	D-3
Q303	B-3
Q311	B-8
Q312	C-9
Q313	C-9
Q341	B-13
Q351	B-11
Q352	B-11
Q353	C-12
Q354	C-12
Q361	F-3
Q362	F-3
Q363	D-7
Q364	F-3
Q365	F-3
Q366	F-3
Q367	G-2
Q368	G-2
Q369	G-3
Q370	G-3
Q371	G-3
Q372	G-3
Q373	D-4
Q374	E-2



6-8. SCHEMATIC DIAGRAM – MAIN (TUNER) Section –

• See page 38 for Waveform. • See page 52 for IC Block Diagrams.


【MAIN BOARD】(1/2)
IC1
FM/AM RF AMP, MIX, OSC
FM/AM IF AMP, DET, MPX
IC TA2104BN
IC2
FM/AM PLL
IC LC72137-B
IC3
TV RF AMP, MIX, OSC,
TV IF AMP
IC TA8176SN
IC4
PRESCALLER
IC TB2104P
Q1 KRC107M-AT AM HIGH CUT SWITCH
Q2 KTA1266Y-AT
Q3 KRC107M-AT IF REQUEST SWITCH
Q4 TV/FM SWITCHING
Q5 KTA1271Y-AT TV B+ SWITCH
Q6 LOW-PASS FILTER 2SK3147
D1 KV1570NT-2
D2 KV1570NT
D3 KV1570NT
D4 KV1570NT
D5 KV1570NT
D6 KV1570NT
D7 KV1570NT
D8 KV1570NT
D9 KV1570NT
D10 KV1570NT
D11 1SS357-77
D12 1SS357-77
D13 1SS357-77
D14 1SS357-77
D15 1SS357-77
D16 1SS357-77
D17 1SS357-77
D18 1SS357-77
D19 1SS357-77
D20 1SS357-77
D21 1SS357-77
D22 1SS357-77
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D25 1SS357-77
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D27 1SS357-77
D28 1SS357-77
D29 1SS357-77
D30 1SS357-77
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AM FERRITE-ROD ANTENNA
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CNP512 6P
R-LATCH
R-DATA
R-CLOCK
R-COUNT
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PLL 5V
RADIO 6V
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L1 FM RF
L2 FM OSC
L3 TV RF
L4 AM VCO
L5 AM FERRITE-ROD ANTENNA
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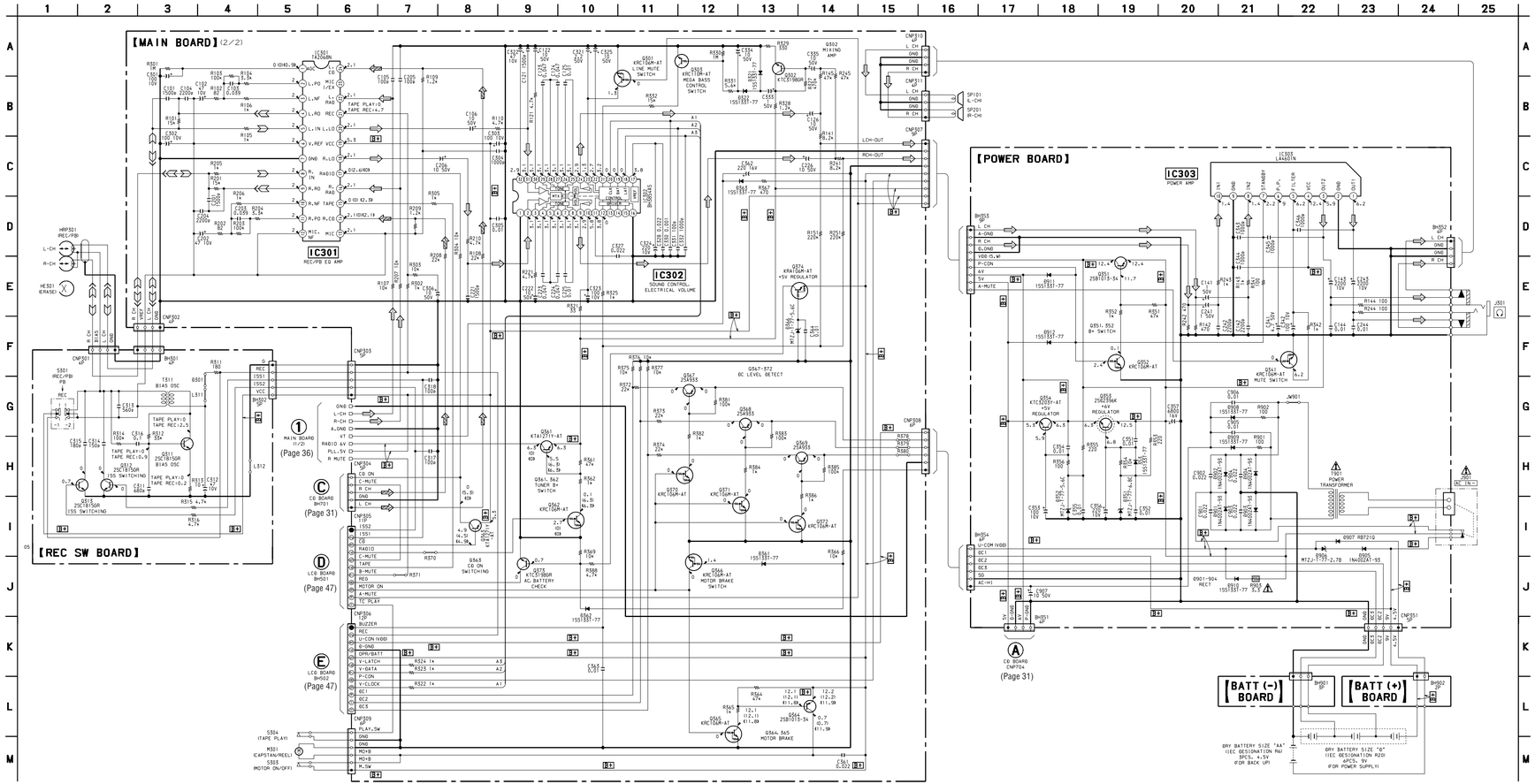
6-9. SCHEMATIC DIAGRAM – MAIN (AUDIO) /POWER SUPPLY Section –

• See page 53 for IC Block Diagrams.



Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- : nonflammable resistor.
- : panel designation.

Note:	Note:
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

- B+ : B+ Line.
- Voltages are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER
  ( ) : CD
  (( )) : TAPE
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Signal path.
  : TUNER
  : TAPE PLAY
  : TAPE RECORD
  : CD PLAY

6-10. IC PIN FUNCTION DESCRIPTION

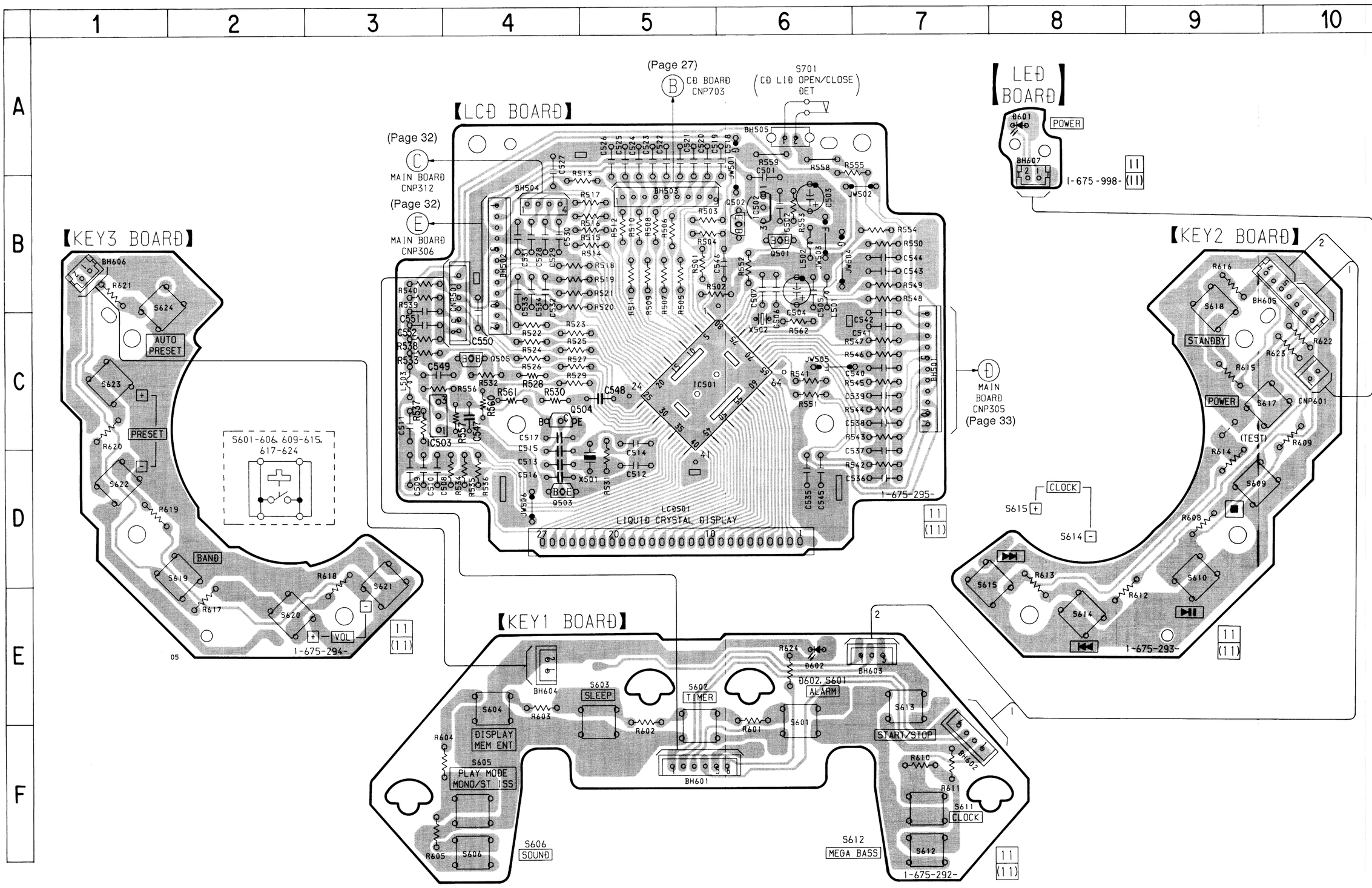
• LCD BOARD IC501 CXP83620-011Q (SYSTEM CONTROLLER)

Pin No.	Pin Name	I/O	Description
1	C-SCOR	I	Subcode sync (S0+S1) detection signal input from the CXD2589Q (IC703)
2	RMC	I	Sircs remote control signal input terminal Not used (fixed at "L")
3	BUZZER	O	Buzzer sound signal output terminal
4	LED	O	LED drive signal output of the ALARM indicator (D602) "L": LED on
5	C-SENS	I	Internal status signal (sense signal) input from the CXD2589Q (IC703)
6	C-SENS2	I	Internal status signal (sense signal) input from the CXA1992BR (IC701)
7	C-SQCK	O	Subcode Q data reading clock signal output to the CXD2589Q (IC703)
8	C-SQSO	I	Subcode Q data input from the CXD2589Q (IC703)
9	$\overline{\text{C-RST}}$	O	System reset signal output to the CXA1992BR (IC701) and CXD2589Q (IC703) "L": reset
10	C-CLOCK	O	Serial data transfer clock signal output to the CXD2589Q (IC703)
11	C-LATCH	O	Serial data latch pulse signal output to the CXD2589Q (IC703)
12	C-DATA	O	Serial data output to the CXD2589Q (IC703)
13	REC	I	Record/playback detection signal input terminal "L": recording mode, "H": playback mode
14	R-COUNT	I	PLL serial data input from the FM/AM PLL (IC2)
15	R-DATA	O	PLL serial data output to the FM/AM PLL (IC2)
16	R-CLOCK	O	PLL serial data transfer clock signal output to the FM/AM PLL (IC2)
17	R-LATCH	O	PLL serial data latch pulse signal output to the FM/AM PLL (IC2)
18	V-LATCH	O	Serial data latch pulse signal output to the electrical volume (IC302)
19	V-DATA	O	Serial data output to the electrical volume (IC302)
20	V-CLOCK	O	Serial data transfer clock signal output to the electrical volume (IC302)
21	P-CON	O	Power on/off control signal output to the power supply circuit, and power amplifier (IC303) "L": standby mode, "H": power on
22	DC1	I	DC level check input of the dry battery and AC input (+9V check) (A/D input)
23	DC2	I	DC level check input of the dry battery (+6V check) (A/D input)
24	DC3	I	DC level check input of the dry battery (+3V check) (A/D input)
25	KEY1	I	Key input terminal (A/D input) S601 to S606 (ALARM, TIMER, SLEEP, DISPLAY, MEM ENT, PLAY MODE MONO/ST ISS, SOUND keys input)
26	KEY2	I	Key input terminal (A/D input) S609 to S615 (■, ▶II, CLOCK, MEGA BASS, START/ STOP, I◀◀ ⊖ CLOCK, ▶▶I ⊕ CLOCK keys input)
27	KEY3	I	Key input terminal (A/D input) S617, S619 to S624 (POWER, BAND, VOL +, VOL –, PRESET –, PRESET +, AUTO PRESET keys input)
28	MODE CHECK	I	Destination setting terminal
29	SHIFT CLOCK	O	Shift clock output of the main system clock (4.19 MHz) "H" active Initial setting signal output terminal
30	$\overline{\text{RST}}$	I	System reset signal input from the reset signal generator (IC503) "L": reset For several hundreds msec. after the power supply rises, "L" is input, then it changes to "H"
31	EXTAL	I	Main system clock input terminal (4.19 MHz)
32	XTAL	O	Main system clock output terminal (4.19 MHz)
33	VSS	—	Ground terminal
34	VL	O	Liquid crystal display drive bias control signal output terminal
35 to 37	VLC3 to VLC1	—	Terminal for doubler circuit capacitor connection to develop liquid crystal display drive voltage
38 to 41	COM0 to COM3	O	Common drive signal output to the liquid crystal display (LCD501)
42 to 64	SEG0 to SEG22	O	Segment drive signal output to the liquid crystal display (LCD501)
65	MOTOR ON	O	Capstan/reel motor (M301) on/off control signal output terminal
66	A-MUTE	O	Audio muting on/off control signal output to the electrical volume (IC302) "H": muting on

Pin No.	Pin Name	I/O	Description
67	B-MUTE	O	Tuner muting on/off control signal output terminal "H": muting on
68	C-MUTE	O	Digital muting on/off control signal output to the CXD2589Q (IC703) "H": muting on
69	TAPE	O	Tape function control signal output to the TA2068N (IC301) "L": radio or CD on, "H": tape on
70	RADIO	O	Power on/off control signal output for the radio +6V power supply "H": radio power on
71	$\overline{\text{CD}}$	O	Power on/off control signal output for the CD +5V power supply, and CD function control signal output to the TA2068N (IC301) "L": CD power on (CD on)
72	VDD	—	Power supply terminal (+5V)
73	TX	O	Sub system clock output terminal (32.768 kHz)
74	TEX	I	Sub system clock input terminal (32.768 kHz)
75	NC	O	Not used (open)
76	ISS1	O	ISS 1 on/off control signal output terminal "H": ISS 1 on
77	ISS2	O	ISS 2 on/off control signal output terminal "H": ISS 2 on
78	C-DOOR	I	CD lid open/close detection switch (S701) input terminal "L": CD lid is closed
79	$\overline{\text{TC-PLAY}}$	I	Tape play detection switch (S304) input terminal "L": tape play mode
80	REG CHK	I	Regulator check signal input of the AC input or battery input "H" active

6-11. PRINTED WIRING BOARDS – DISPLAY Section –

• See page 26 for Circuit Boards Location.



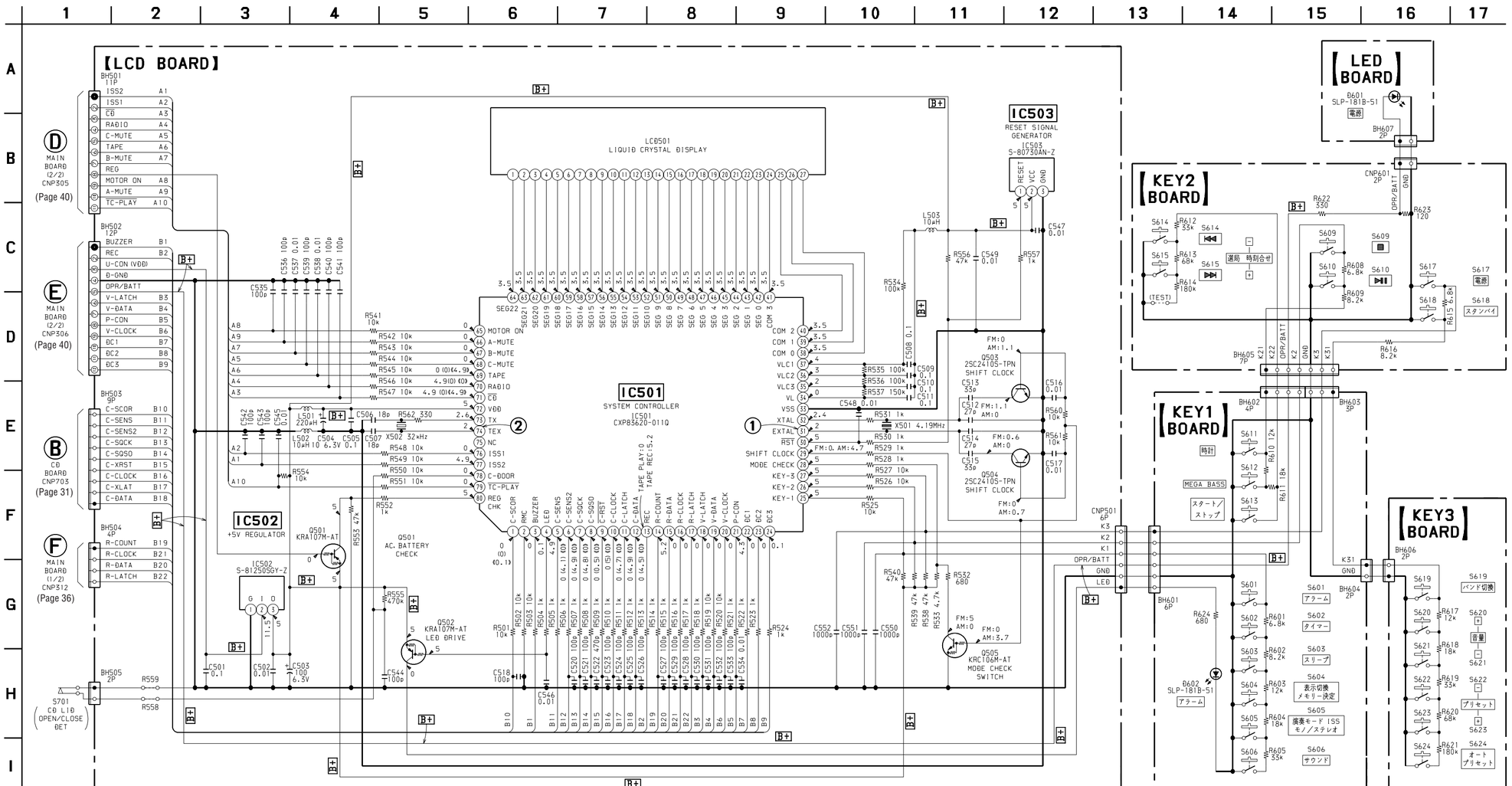
• **Semiconductor Location**

Ref. No.	Location	Ref. No.	Location
D601	A-8	Q501	B-6
D602	E-6	Q502	B-6
		Q503	D-4
IC501	C-5	Q504	C-4
IC502	B-6	Q505	C-4
IC503	C-4		

Note on Printed Wiring Boards:

- o——— : parts extracted from the component side.
- ——— : parts extracted from the conductor side.
- ▒▒▒ : Pattern from the side which enables seeing.

6-12. SCHEMATIC DIAGRAM – DISPLAY Section – • See page 38 for Waveforms.



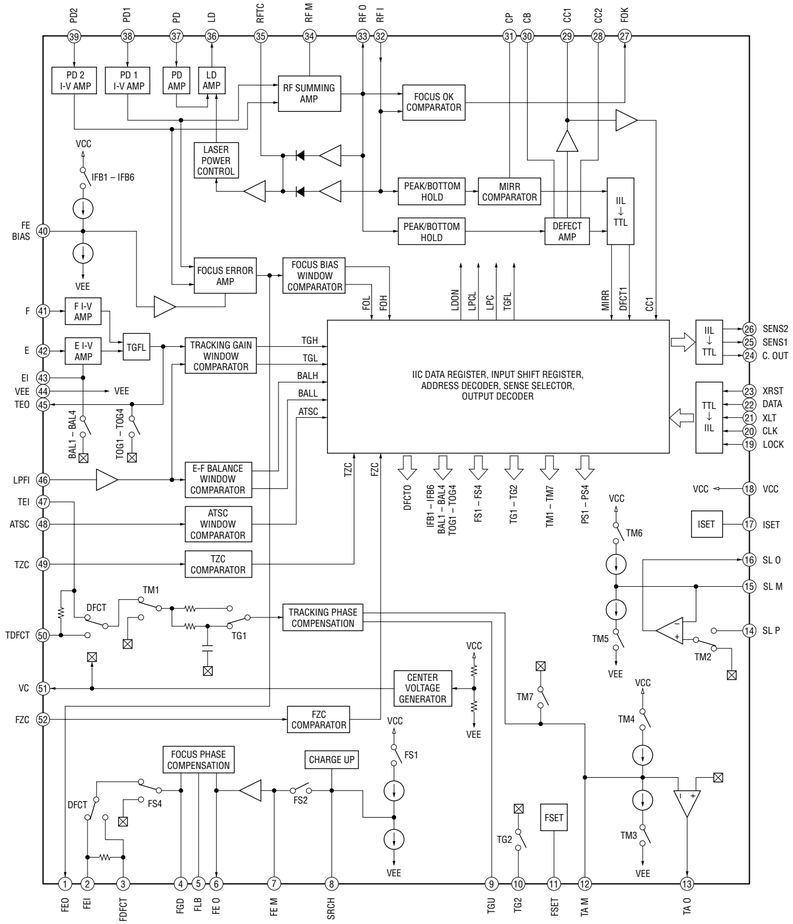
Note on Schematic Diagram:

- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and 1/4 W or less unless otherwise specified.
- ▭ : panel designation.
- B+ : B+ Line.
- Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : TUNER
  ( ) : CD
  ⟨⟨ ⟩⟩ : TAPE
- Voltages are taken with a VOM (Input impedance 10 MΩ). Voltage variations may be noted due to normal production tolerances.
- Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- Circled numbers refer to waveforms.

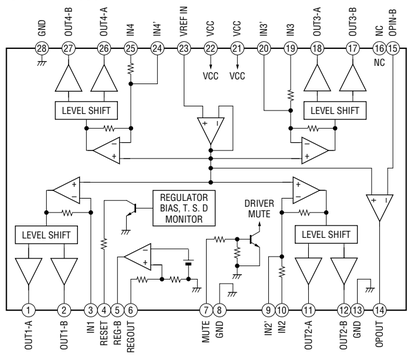
• **IC Block Diagrams**

– CD Board –

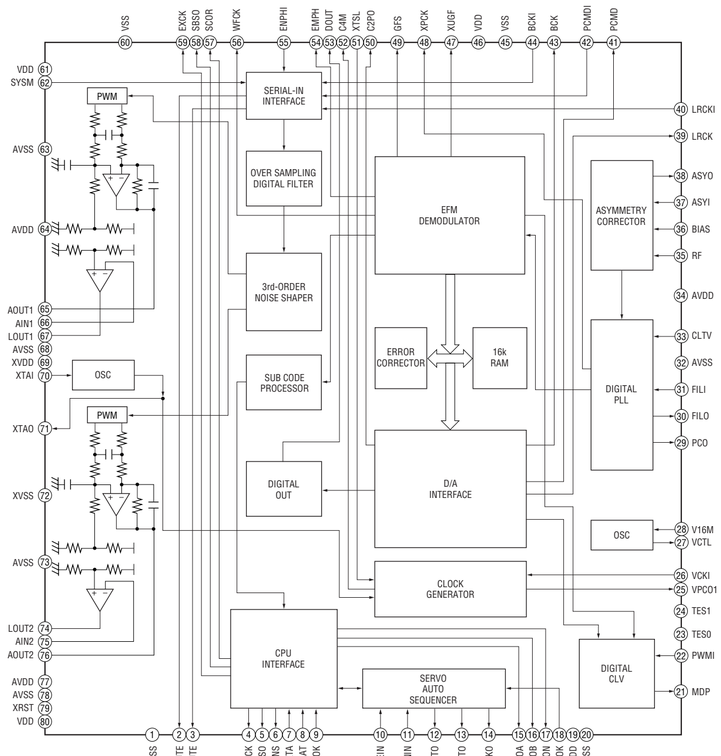
IC701 CXA1992BR



IC702 BA6898FP

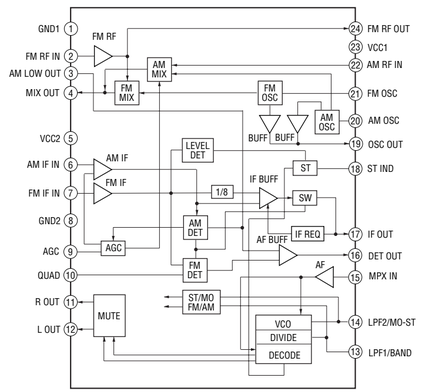


IC703 CXD2589Q

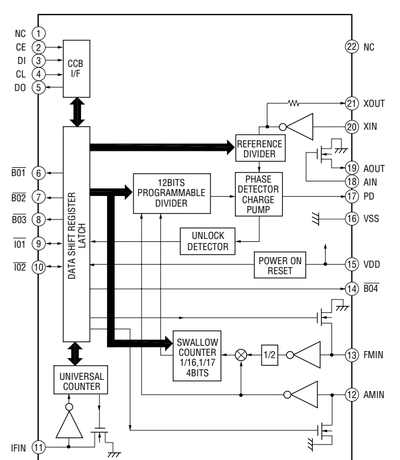


– MAIN Board –

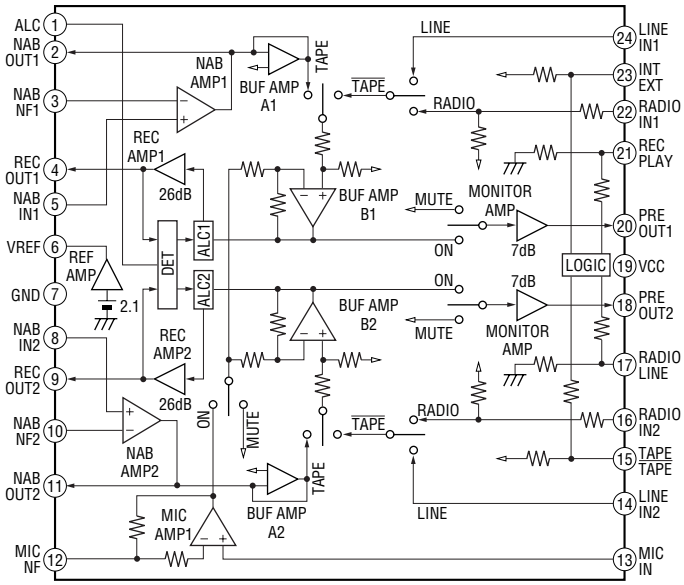
IC1 TA2104BN



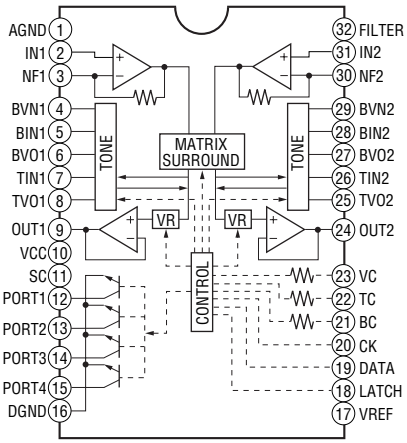
IC2 LC72137-D



IC301 TA2068N

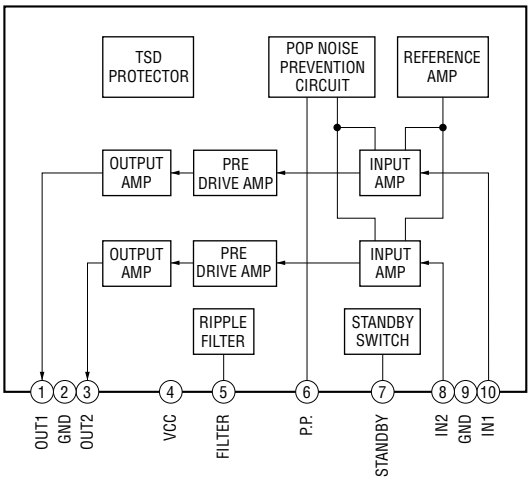


IC302 BH3854AS



– POWER Board –

IC303 LA4601N



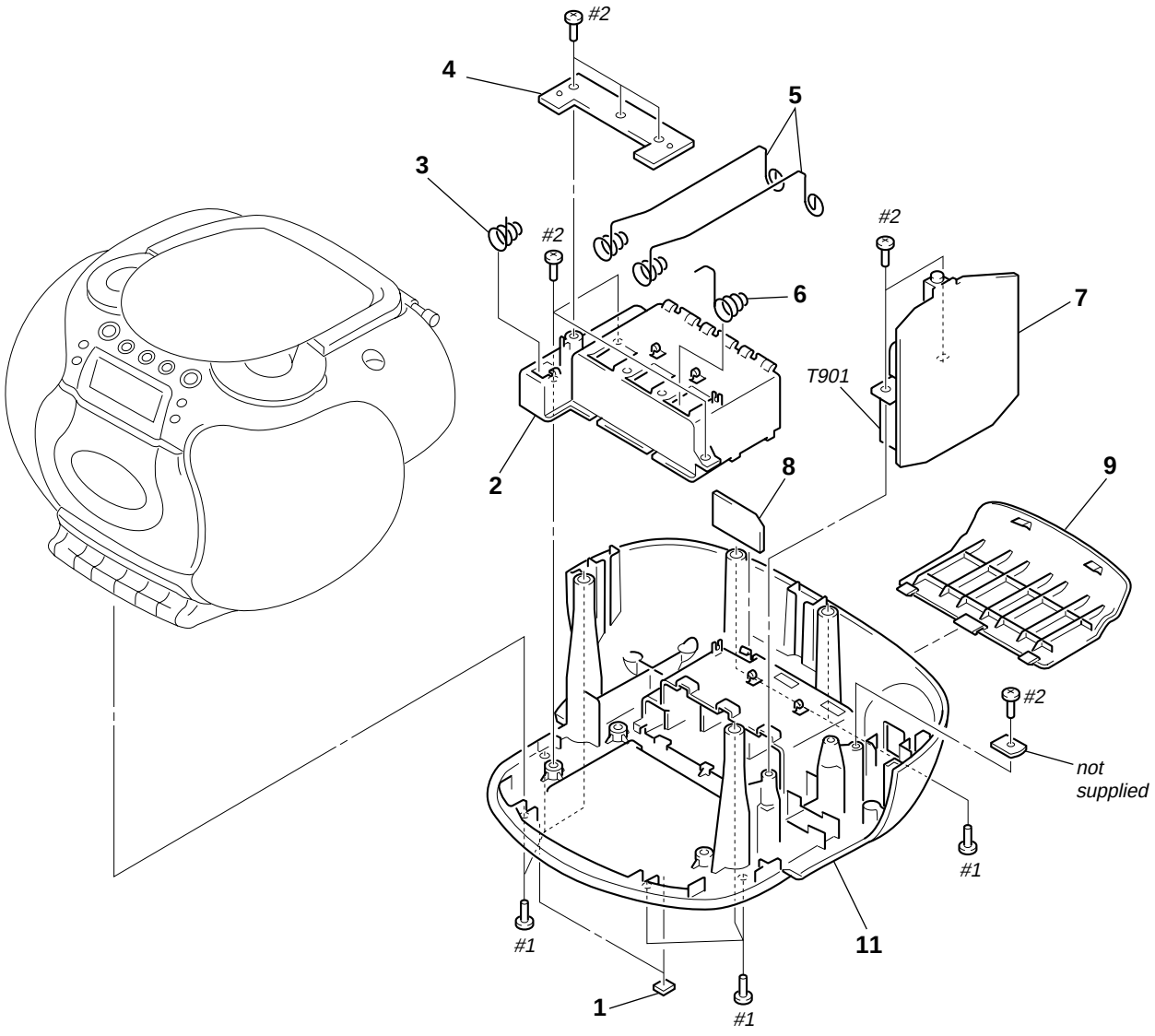
SECTION 7
EXPLODED VIEWS

NOTE:
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Abbreviation
  CND: Canadian E92: AC120Varea MX: Mexican
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of the electrical parts list.

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

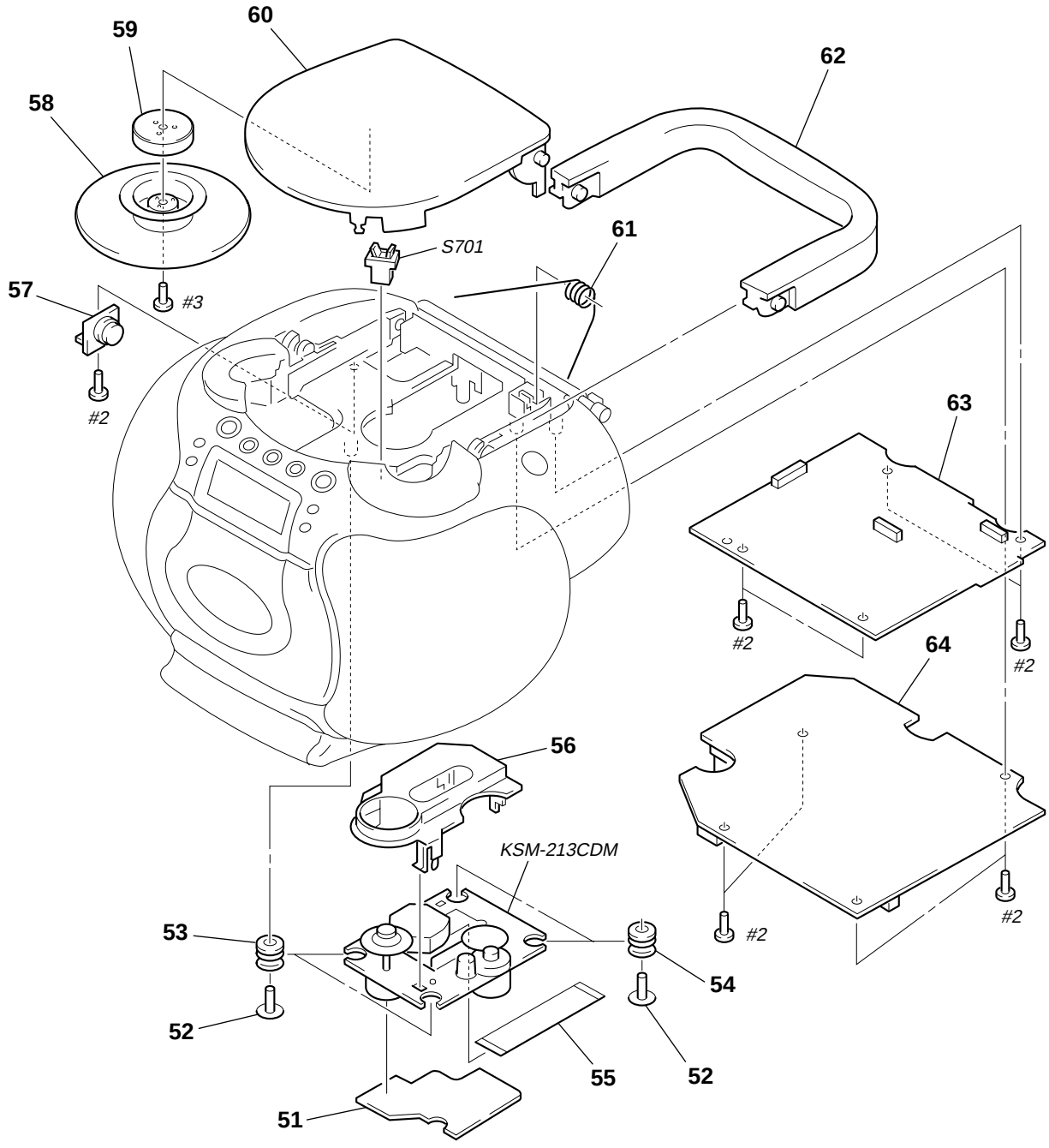
(1) LOWER CABINET SECTION



Ref. No.	Part No.	Description	Remark
1	3-039-471-01	FOOT	
2	3-039-317-01	CASE (BATT)	
3	3-039-330-01	TERMINAL (–) (B), BATTERY	
* 4	1-675-298-11	BATT (–) BOARD	
5	3-039-328-01	TERMINAL (+. –), BATTERY	
6	3-039-327-01	TERMINAL (–), BATTERY	
* 7	A-3322-177-A	POWER BOARD, COMPLETE	
* 8	1-675-297-11	BATT (+) BOARD	

Ref. No.	Part No.	Description	Remark
9	3-039-318-01	LID, BATTERY CASE (SILVER)	
9	3-039-318-11	LID, BATTERY CASE (GREEN)	
9	3-039-318-21	LID, BATTERY CASE (BLUE)	
11	3-039-316-01	CABINET (LOWER) (SILVER)	
11	3-039-316-11	CABINET (LOWER) (GREEN)	
11	3-039-316-21	CABINET (LOWER) (BLUE)	
⚠T901	1-431-230-11	TRANSFORMER, POWER (US, E92, MX)	
⚠T901	1-431-230-21	TRANSFORMER, POWER (CND)	

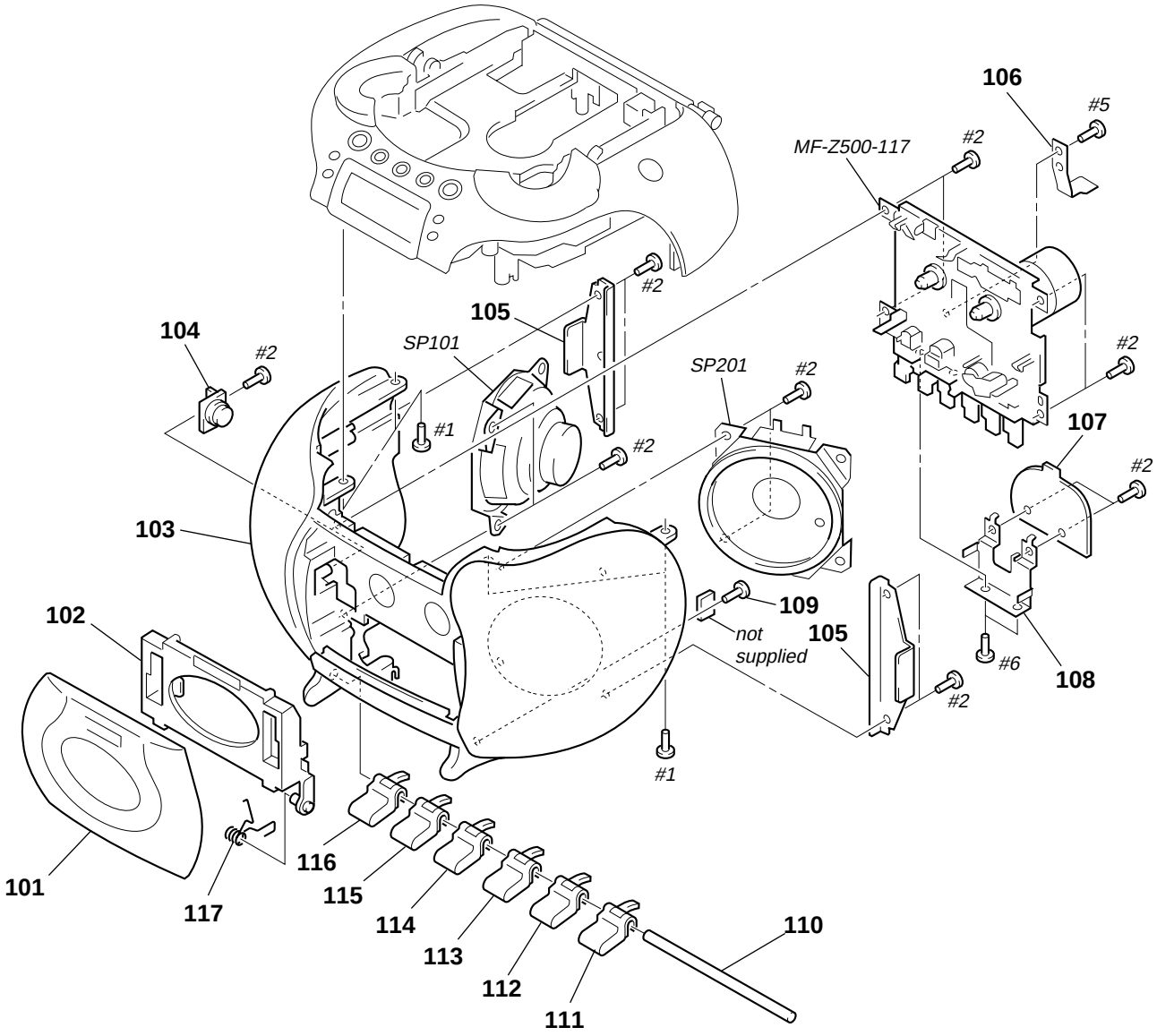
(2) MAIN BOARD AND CD SECTION



Ref. No.	Part No.	Description	Remark
51	1-639-678-12	CD MOTOR BOARD	
52	3-921-725-01	SCREW +PWH 2.6X10	
53	3-910-095-31	RUBBER, VIBRATION PROOF (GREEN)	
54	3-910-095-21	RUBBER, VIBRATION PROOF (RED)	
* 55	1-790-242-11	WIRE, PARALLEL (FFC)	
56	3-923-736-01	COVER, CD	
57	3-922-112-31	DAMPER	
58	3-019-395-01	PLATE, CHUCKING	
59	1-452-899-11	MAGNET	
60	3-039-336-01	LID, CD (SILVER)	

Ref. No.	Part No.	Description	Remark
60	3-039-336-11	LID, CD (GREEN)	
60	3-039-336-21	LID, CD (BLUE)	
61	3-039-324-01	SPRING (CD)	
62	3-039-341-01	HANDLE (SILVER)	
62	3-039-341-11	HANDLE (GREEN)	
62	3-039-341-21	HANDLE (BLUE)	
* 63	A-3323-287-A	CD BOARD, COMPLETE	
* 64	A-3323-288-A	MAIN BOARD, COMPLETE	
S701	1-692-960-11	SWITCH, PUSH (1 KEY) (CD DOOR OPEN/CLOSE)	

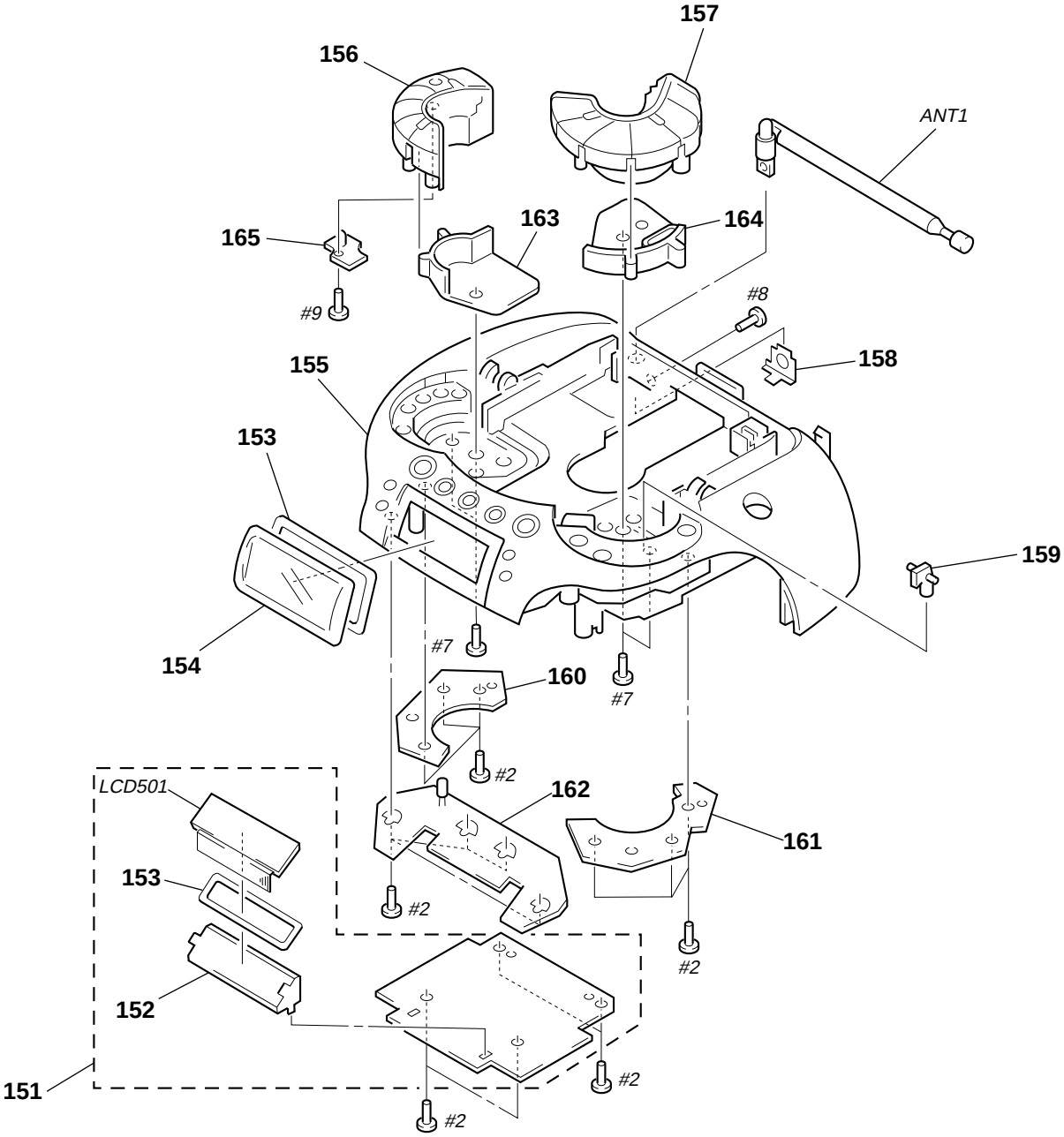
(3) FRONT CABINET SECTION



Ref. No.	Part No.	Description	Remark
101	X-3377-950-1	LID SUB ASSY, CASSETTE (SILVER)	
101	X-3378-208-1	LID SUB ASSY, CASSETTE (GREEN)	
101	X-3378-209-1	LID SUB ASSY, CASSETTE (BLUE)	
102	3-039-301-01	HOLDER, CASSETTE	
103	X-3377-871-1	CABINET (FRONT) (S) ASSY (SILVER)	
103	X-3377-873-1	CABINET (FRONT) SUB ASSY (GREEN)	
103	X-3377-874-1	CABINET (FRONT) SUB ASSY (BLUE)	
104	3-922-112-21	DAMPER	
* 105	3-039-321-01	BRACKET (SP)	
* 106	3-039-332-01	LEVER (REC)	
* 107	A-3322-176-A	REC SW BOARD, COMPLETE	
* 108	3-039-333-01	BRACKET (MD)	
109	3-921-725-01	SCREW (2.6X10), +PWH	
* 110	3-039-325-01	SHAFT (MD)	
111	3-039-308-01	BUTTON (PAUSE) (❚❚) (SILVER)	
111	3-039-308-11	BUTTON (PAUSE) (❚❚) (GREEN)	
111	3-039-308-21	BUTTON (PAUSE) (❚❚) (BLUE)	
112	3-039-307-01	BUTTON (ST/EJ) (■ ⏏) (SILVER)	

Ref. No.	Part No.	Description	Remark
112	3-039-307-11	BUTTON (ST/EJ) (■ ⏏) (GREEN)	
112	3-039-307-21	BUTTON (ST/EJ) (■ ⏏) (BLUE)	
113	3-039-306-01	BUTTON (FF) (▶▶) (SILVER)	
113	3-039-306-11	BUTTON (FF) (▶▶) (GREEN)	
113	3-039-306-21	BUTTON (FF) (▶▶) (BLUE)	
114	3-039-305-01	BUTTON (REW) (◀◀) (SILVER)	
114	3-039-305-11	BUTTON (REW) (◀◀) (GREEN)	
114	3-039-305-21	BUTTON (REW) (◀◀) (BLUE)	
115	3-039-304-01	BUTTON (PLAY) (▶) (SILVER)	
115	3-039-304-11	BUTTON (PLAY) (▶) (GREEN)	
115	3-039-304-21	BUTTON (PLAY) (▶) (BLUE)	
116	3-039-303-01	BUTTON (REC) (●) (SILVER)	
116	3-039-303-11	BUTTON (REC) (●) (GREEN)	
116	3-039-303-21	BUTTON (REC) (●) (BLUE)	
117	3-039-323-01	SPRING (CASSETE)	
SP101	1-529-478-11	SPEAKER (L ch)	
SP201	1-529-478-11	SPEAKER (R ch)	

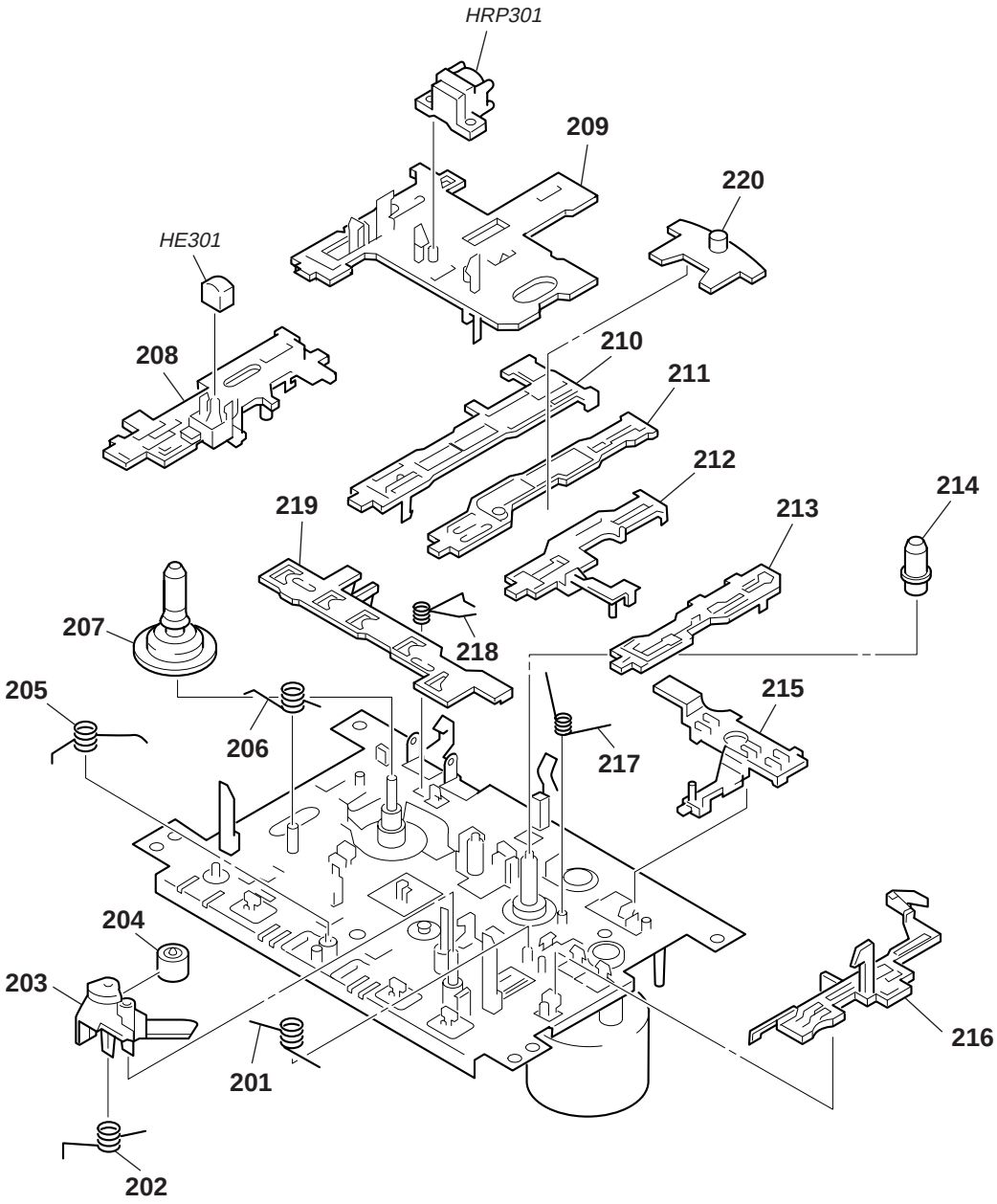
(4) UPPER CABINET SECTION



Ref. No.	Part No.	Description	Remark
* 151	A-3322-186-A	LCD BOARD, COMPLETE	
* 152	3-039-322-01	BRACKET (LCD)	
153	3-039-334-01	SHEET (LCD), ADHESIVE	
154	3-039-337-01	WINDOW (LCD) (SILVER)	
154	3-039-337-11	WINDOW (LCD) (GREEN)	
154	3-039-337-21	WINDOW (LCD) (BLUE)	
155	X-3378-409-1	CABINET (UPPER) SUB ASSY (SILVER)	
155	X-3378-410-1	CABINET (UPPER) SUB ASSY (GREEN)	
155	X-3378-411-1	CABINET (UPPER) SUB ASSY (BLUE)	
156	3-039-339-01	BUTTON (CD) (SILVER)	
156	3-039-339-11	BUTTON (CD) (GREEN)	
156	3-039-339-21	BUTTON (CD) (BLUE)	
157	3-039-340-01	BUTTON (TUNE) (SILVER)	
157	3-039-340-11	BUTTON (TUNE) (GREEN)	
157	3-039-340-21	BUTTON (TUNE) (BLUE)	
158	3-039-326-01	TERMINAL, ANTENNA	

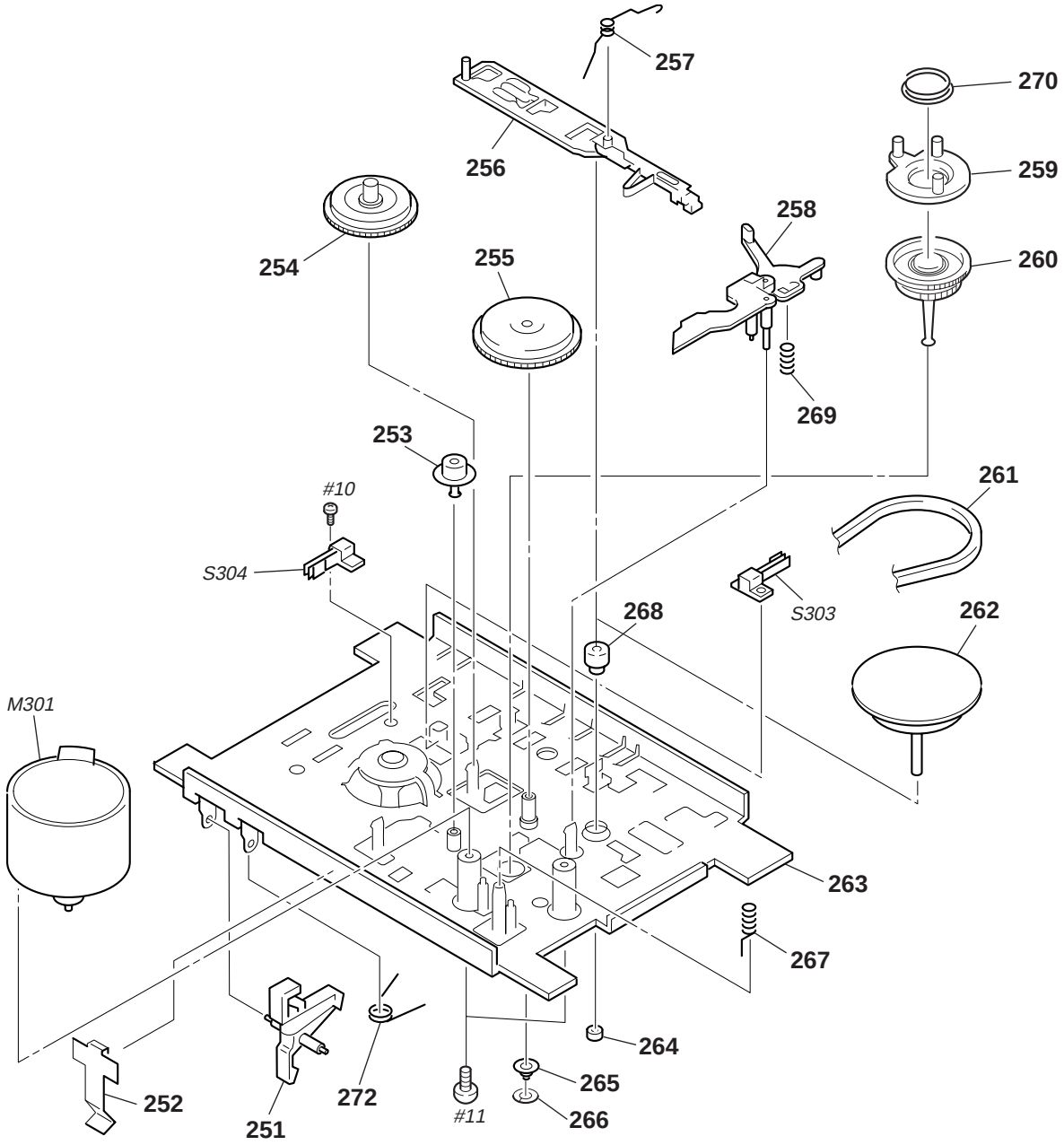
Ref. No.	Part No.	Description	Remark
159	3-041-268-01	LEVER (CD) (SILVER)	
159	3-041-268-11	LEVER (CD) (GREEN)	
159	3-041-268-21	LEVER (CD) (BLUE)	
* 160	1-675-293-11	KEY 2 BOARD	
* 161	1-675-294-11	KEY 3 BOARD	
* 162	1-675-292-11	KEY 1 BOARD	
* 163	3-039-310-01	COVER (L) (SILVER)	
163	3-039-310-11	COVER (L) (GREEN)	
163	3-039-310-21	COVER (L) (BLUE)	
164	3-039-315-01	COVER (R) (SILVER)	
164	3-039-315-11	COVER (R) (GREEN)	
164	3-039-315-21	COVER (R) (BLUE)	
165	A-3328-692-A	LED BOARD, COMPLETE	
ANT1	1-501-820-11	ANTENNA, TELESCOPIC (FM)	
LCD501	1-803-763-11	DISPLAY PANEL, LIQUID CRYSTAL	

(5) TAPE MECHANISM DECK SECTION-1 (MF-Z500-117)



Ref. No.	Part No.	Description	Remark
201	3-933-010-01	SPRING (S/P), TORSION	
202	3-933-025-01	SPRING (P), TORSION	
203	3-933-026-01	LEVER (P)	
204	3-933-024-01	ROLLER, PINCH	
205	3-933-019-01	SPRING (F/R), TORSION	
206	3-933-028-01	SPRING (FWD), TORSION	
207	3-933-016-01	GEAR (S REEL)	
208	3-008-590-01	SLIDER (REC)	
209	3-008-592-01	BASE (H), HEAD	
* 210	3-008-588-01	SLIDER (REW)	
* 211	3-008-589-13	SLIDER (FF)	
* 212	3-008-587-01	SLIDER (STOP)	
* 213	3-008-591-01	SLIDER (PAUSE)	
214	3-933-004-01	CLAW, REEL	
* 215	3-933-021-01	SLIDER (FRP)	
* 216	3-933-006-01	SLIDER (EJECT)	
217	3-934-833-01	SPRING (FRP)	
218	3-022-794-02	SPRING (BT)	
219	3-933-007-01	PLATE, LOCK	
* 220	3-012-114-01	LEVER (FR)	
HE301	1-543-876-11	HEAD (ERASE)	
HRP301	1-500-454-11	HEAD, MAGNETIC (RECORD/PLAYBACK)	

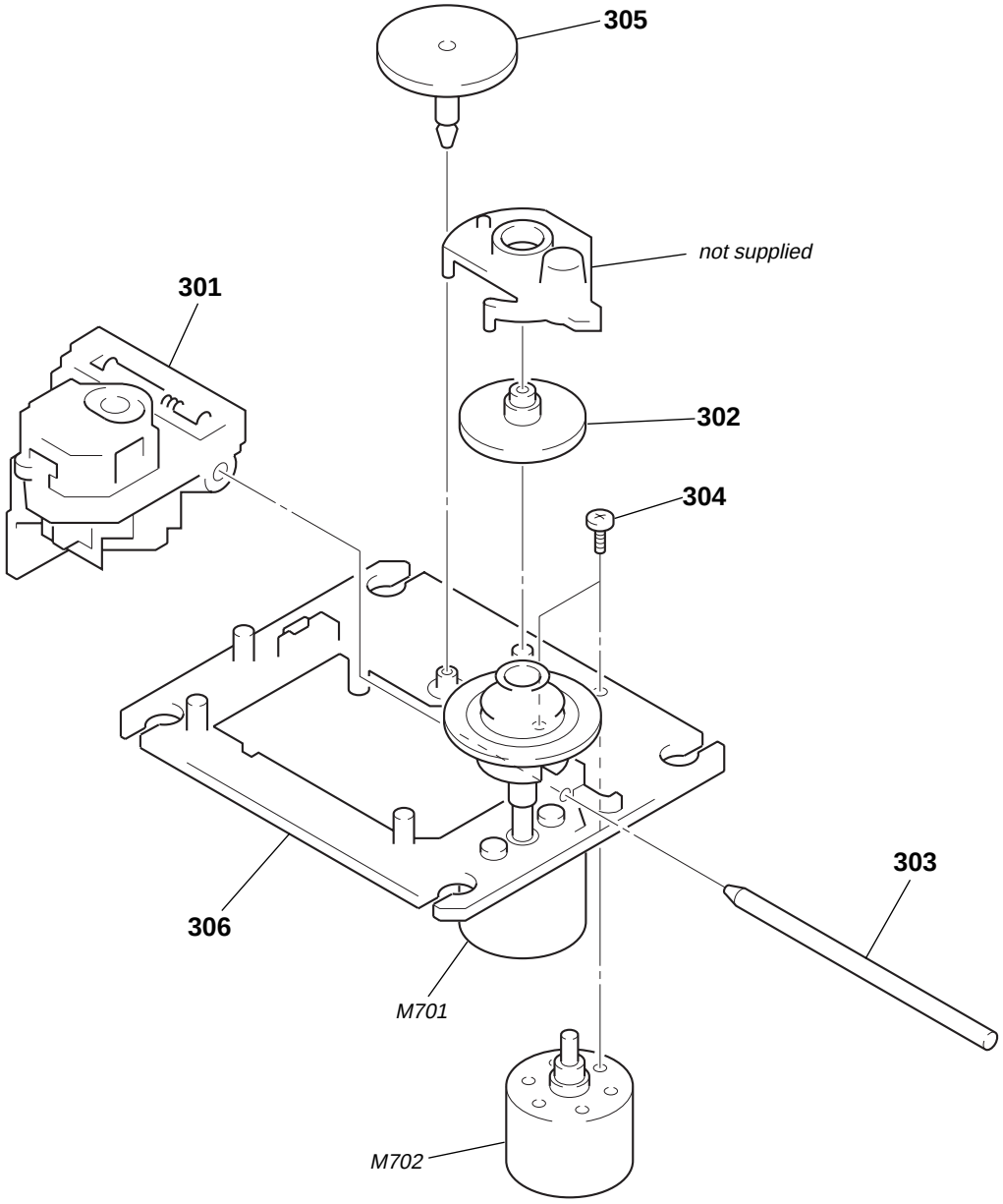
(6) TAPE MECHANISM DECK SECTION-2 (MF-Z500-117)



Ref. No.	Part No.	Description	Remark
251	3-933-029-01	LEVER, ERASING PREVENTION	
252	3-933-182-01	SPRING, CASSETTE	
253	3-932-995-01	GEAR (MID)	
254	X-3371-667-1	CLUTCH ASSY	
255	3-932-997-01	GEAR (CAM)	
* 256	3-932-999-01	SLIDER (SW)	
257	3-932-998-01	SPRING (GROUND), TORSION	
258	3-009-648-01	LEVER (S. OFF)	
259	3-936-438-01	LEVER (K)	
260	X-3373-572-1	REEL ASSY (N), T	
261	3-933-020-01	BELT	
262	X-3372-924-1	FLYWHEEL ASSY	

Ref. No.	Part No.	Description	Remark
263	3-932-993-01	CHASSIS, OUTSERT	
264	3-343-358-01	RING, RETAINING	
265	3-933-005-01	SPRING (CAM), COMPRESSION	
266	3-016-349-01	WASHER	
267	3-937-760-01	SPRING (GROUND), COMPRESSION	
268	3-934-336-01	BEARING	
269	3-939-383-02	SPRING, COMPRESSION	
270	3-009-650-02	SPRING (K), COMPRESSION	
272	3-023-780-01	SPRING	
M301	A-3320-446-A	MOTOR ASSY (WITH PULLY) (CAPSTAN/REEL)	
S303	1-762-679-11	SWITCH, LEAF (MOTOR ON/OFF)	
S304	1-771-059-11	SWITCH, LEAF (TAPE PLAY)	

(7) OPTICAL PICK-UP SECTION (KSM-213CDM)



The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

Ref. No.	Part No.	Description	Remark
⚠301	8-848-483-05	OPTICAL PICK-UP KSS-213C	
302	2-627-003-02	GEAR (B) (RP)	
303	2-626-908-01	SHAFT, SLED	
304	3-713-786-51	SCREW +P 2X3	
305	2-625-188-02	GEAR (A)	
306	X-2626-202-1	CHASSIS ASSY (MB) (RP), MOTOR (SPINDLE) (INCLUDING M701)	
M702	X-2625-769-1	GEAR ASSY (MB), MOTOR (SLED)	

SECTION 8
ELECTRICAL PARTS LIST

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL: Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F: nonflammable
- Abbreviation
  CND: Canadian E92: AC120Varea MX: Mexican
- Items marked "*" are not stocked since they are seldom required for routine service.
  Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u: µ, for example:
  uA. . : µA. . uPA. . : µPA. .
  uPB. . : µPB. . uPC. . : µPC. .
  uPD. . : µPD. .
- CAPACITORS
  uF: µF
- COILS
  uH: µH

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiquens pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-675-297-11	BATT (+) BOARD			
		**********			
**********					
*	1-675-298-11	BATT (–) BOARD			
		**********			
**********					
*	A-3323-287-A	CD BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C701	1-162-600-11	CERAMIC	0.0047uF	20%	16V
C702	1-162-306-11	CERAMIC	0.01uF	20%	16V
C703	1-162-305-11	CERAMIC	0.0068uF	20%	16V
C704	1-130-491-00	MYLAR	0.047uF	5%	50V
C705	1-162-306-11	CERAMIC	0.01uF	20%	16V
C706	1-104-664-11	ELECT	47uF	20%	10V
C707	1-161-494-00	CERAMIC	0.022uF		25V
C708	1-136-165-00	MYLAR	0.1uF	5%	50V
C709	1-136-165-00	MYLAR	0.1uF	5%	50V
C710	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C711	1-162-199-31	CERAMIC	10PF	5%	50V
C712	1-162-294-31	CERAMIC	0.001uF	10%	50V
C713	1-136-165-00	MYLAR	0.1uF	5%	50V
C714	1-136-165-00	MYLAR	0.1uF	5%	50V
C715	1-126-233-11	ELECT	22uF	20%	50V
C716	1-136-165-00	MYLAR	0.1uF	5%	50V
C717	1-130-483-00	MYLAR	0.01uF	5%	50V
C718	1-131-377-00	TANTALUM	10uF	10%	10V
C719	1-104-664-11	ELECT	47uF	20%	10V
C720	1-162-306-11	CERAMIC	0.01uF	20%	16V
C721	1-130-483-00	MYLAR	0.01uF	5%	50V
C722	1-130-489-00	MYLAR	0.033uF	5%	50V
C723	1-162-306-11	CERAMIC	0.01uF	20%	16V
C724	1-130-489-00	MYLAR	0.033uF	5%	50V
C725	1-130-486-00	MYLAR	0.018uF	10%	50V
C727	1-162-199-31	CERAMIC	10PF	5%	50V
C728	1-104-664-11	ELECT	47uF	20%	10V
C729	1-126-962-11	ELECT	3.3uF	20%	50V
C730	1-136-163-00	MYLAR	0.068uF	5%	50V
C731	1-162-215-31	CERAMIC	47PF	5%	50V
C732	1-162-306-11	CERAMIC	0.01uF	20%	16V
C733	1-162-306-11	CERAMIC	0.01uF	20%	16V
C734	1-128-805-21	CERAMIC	47PF	5%	50V
C735	1-162-282-31	CERAMIC	100PF	10%	50V
C737	1-162-306-11	CERAMIC	0.01uF	20%	16V
C741	1-127-878-21	CERAMIC	0.015uF	10%	50V
C743	1-104-664-11	ELECT	47uF	20%	10V
C744	1-124-472-11	ELECT	470uF	20%	10V
C745	1-124-443-00	ELECT	100uF	20%	10V
C747	1-162-282-31	CERAMIC	100PF	10%	50V
C748	1-124-443-00	ELECT	100uF	20%	10V
C749	1-162-282-31	CERAMIC	100PF	10%	50V
C750	1-162-306-11	CERAMIC	0.01uF	20%	16V
C751	1-162-306-11	CERAMIC	0.01uF	20%	16V
C753	1-124-443-00	ELECT	100uF	20%	10V
C755	1-127-888-21	CERAMIC	0.1uF	10%	50V
C756	1-162-306-11	CERAMIC	0.01uF	20%	16V
C759	1-124-443-00	ELECT	100uF	20%	10V
C760	1-136-173-00	MYLAR	0.47uF	5%	50V
C761	1-162-199-31	CERAMIC	10PF	5%	50V
C762	1-124-443-00	ELECT	100uF	20%	10V
C763	1-162-290-31	CERAMIC	470PF	10%	50V
C764	1-162-199-31	CERAMIC	10PF	5%	50V
C765	1-162-286-21	CERAMIC	220PF	10%	50V
C766	1-124-443-00	ELECT	100uF	20%	10V
C767	1-162-294-31	CERAMIC	0.001uF	10%	50V
C768	1-162-306-11	CERAMIC	0.01uF	20%	16V
C769	1-136-169-00	MYLAR	0.22uF	5%	50V
C770	1-162-282-31	CERAMIC	100PF	10%	50V
C771	1-162-282-31	CERAMIC	100PF	10%	50V
C772	1-162-306-11	CERAMIC	0.01uF	20%	16V
C773	1-124-443-00	ELECT	100uF	20%	10V
C774	1-161-494-00	CERAMIC	0.022uF		25V
C775	1-162-306-11	CERAMIC	0.01uF	20%	16V
C776	1-162-306-11	CERAMIC	0.01uF	20%	16V
C777	1-162-306-11	CERAMIC	0.01uF	20%	16V
C778	1-162-306-11	CERAMIC	0.01uF	20%	16V
C780	1-162-284-31	CERAMIC	150PF	10%	50V
C781	1-162-292-31	CERAMIC	680PF	10%	50V
C782	1-126-963-11	ELECT	4.7uF	20%	50V
C783	1-162-282-31	CERAMIC	100PF	10%	50V
C784	1-162-290-31	CERAMIC	470PF	10%	50V
C785	1-162-282-31	CERAMIC	100PF	10%	50V
C786	1-162-282-31	CERAMIC	100PF	10%	50V
C787	1-162-294-31	CERAMIC	0.001uF	10%	50V

CD | **CD MOTOR** | **KEY 1**

Ref. No.	Part No.	Description			Remark
C790	1-162-284-31	CERAMIC	150PF	10%	50V
C791	1-162-292-31	CERAMIC	680PF	10%	50V
C792	1-126-963-11	ELECT	4.7uF	20%	50V
C793	1-162-306-11	CERAMIC	0.01uF	20%	16V
C794	1-126-963-11	ELECT	4.7uF	20%	50V
C795	1-162-600-11	CERAMIC	0.0047uF	20%	16V
C796	1-162-600-11	CERAMIC	0.0047uF	20%	16V
C797	1-162-282-31	CERAMIC	100PF	10%	50V
C798	1-162-282-31	CERAMIC	100PF	10%	50V
C799	1-130-489-00	MYLAR	0.033uF	5%	50V
		< CONNECTOR >			
CNP701	1-770-646-11	CONNECTOR, FFC/FPC 16P			
* CNP702	1-785-658-11	PIN, CONNECTOR (PC BOARD) 6P			
* CNP703	1-785-661-11	PIN, CONNECTOR (PC BOARD) 9P			
* CNP704	1-785-670-21	PIN, CONNECTOR (PC BOARD) 4P			
		< IC >			
IC701	8-752-082-14	IC CXA1992BR			
IC702	8-759-473-42	IC BA6898FP			
IC703	8-752-384-13	IC CXD2589Q			
		< COIL >			
L701	1-410-509-11	INDUCTOR	10uH		
L702	1-410-509-11	INDUCTOR	10uH		
L703	1-410-509-11	INDUCTOR	10uH		
L704	1-410-509-11	INDUCTOR	10uH		
		< TRANSISTOR >			
Q701	8-729-037-13	TRANSISTOR	KTA1271Y		
Q702	8-729-037-13	TRANSISTOR	KTA1271Y		
Q703	8-729-036-77	TRANSISTOR	KRC107M		
		< RESISTOR >			
R701	1-249-440-11	CARBON	82K	5%	1/4W
R702	1-249-441-11	CARBON	100K	5%	1/4W
R703	1-249-441-11	CARBON	100K	5%	1/4W
R704	1-249-441-11	CARBON	100K	5%	1/4W
R705	1-249-441-11	CARBON	100K	5%	1/4W
R706	1-249-440-11	CARBON	82K	5%	1/4W
R707	1-247-887-00	CARBON	220K	5%	1/4W
R709	1-247-883-00	CARBON	150K	5%	1/4W
R710	1-247-889-00	CARBON	270K	5%	1/4W
R711	1-247-883-00	CARBON	150K	5%	1/4W
R712	1-247-891-00	CARBON	330K	5%	1/4W
R714	1-249-429-11	CARBON	10K	5%	1/4W
R715	1-249-425-11	CARBON	4.7K	5%	1/4W
R716	1-247-852-11	CARBON	7.5K	5%	1/4W
R717	1-247-903-00	CARBON	1M	5%	1/4W
R718	1-247-899-11	CARBON	680K	5%	1/4W
R719	1-249-393-11	CARBON	10	5%	1/4W
R720	1-249-431-11	CARBON	15K	5%	1/4W
R721	1-249-435-11	CARBON	33K	5%	1/4W
R722	1-247-883-00	CARBON	150K	5%	1/4W
R723	1-247-896-11	CARBON	510K	5%	1/4W
R724	1-249-439-11	CARBON	68K	5%	1/4W
R725	1-247-883-00	CARBON	150K	5%	1/4W
R726	1-247-883-00	CARBON	150K	5%	1/4W

Ref. No.	Part No.	Description			Remark
R727	1-249-437-11	CARBON	47K	5%	1/4W
R728	1-247-885-00	CARBON	180K	5%	1/4W
R729	1-249-430-11	CARBON	12K	5%	1/4W
R730	1-249-435-11	CARBON	33K	5%	1/4W
R731	1-247-863-91	CARBON	22K	5%	1/4W
R734	1-249-419-11	CARBON	1.5K	5%	1/4W
R735	1-249-430-11	CARBON	12K	5%	1/4W
R736	1-247-863-91	CARBON	22K	5%	1/4W
R738	1-249-435-11	CARBON	33K	5%	1/4W
R740	1-249-417-11	CARBON	1K	5%	1/4W
R741	1-249-417-11	CARBON	1K	5%	1/4W
R742	1-249-417-11	CARBON	1K	5%	1/4W
R744	1-249-417-11	CARBON	1K	5%	1/4W
R745	1-249-417-11	CARBON	1K	5%	1/4W
R746	1-249-417-11	CARBON	1K	5%	1/4W
R747	1-249-428-11	CARBON	8.2K	5%	1/4W
R757	1-249-417-11	CARBON	1K	5%	1/4W
R758	1-249-437-11	CARBON	47K	5%	1/4W
R760	1-249-437-11	CARBON	47K	5%	1/4W
R764	1-247-843-11	CARBON	3.3K	5%	1/4W
R765	1-249-417-11	CARBON	1K	5%	1/4W
R766	1-249-429-11	CARBON	10K	5%	1/4W
R768	1-247-903-00	CARBON	1M	5%	1/4W
R771	1-249-429-11	CARBON	10K	5%	1/4W
R772	1-247-887-00	CARBON	220K	5%	1/4W
R774	1-249-417-11	CARBON	1K	5%	1/4W
R775	1-249-429-11	CARBON	10K	5%	1/4W
R776	1-249-437-11	CARBON	47K	5%	1/4W
R777	1-249-425-11	CARBON	4.7K	5%	1/4W
R780	1-249-430-11	CARBON	12K	5%	1/4W
R781	1-249-430-11	CARBON	12K	5%	1/4W
R782	1-249-430-11	CARBON	12K	5%	1/4W
R790	1-249-430-11	CARBON	12K	5%	1/4W
R791	1-249-430-11	CARBON	12K	5%	1/4W
R792	1-249-430-11	CARBON	12K	5%	1/4W
R794	1-249-417-11	CARBON	1K	5%	1/4W
R799	1-249-429-11	CARBON	10K	5%	1/4W
		< VIBRATOR >			
X701	1-577-253-11	VIBRATOR, CERAMIC (16.9344MHz)			
**********					
	1-639-678-12	CD MOTOR BOARD			
		**********			
		< CONNECTOR >			
CNP707	1-564-722-11	PIN, CONNECTOR (SMALL TYPE) 6P			
		< SWITCH >			
S701	1-572-085-11	SWITCH, LEAF (LIMIT)			
**********					
*	1-675-292-11	KEY 1 BOARD			
		**********			
		< LED >			
D602	8-719-038-29	LED SLP-181B-51 (ALARM)			

Ref. No.	Part No.	Description			Remark
		< RESISTOR >			
R601	1-249-427-11	CARBON	6.8K	5%	1/4W
R602	1-249-428-11	CARBON	8.2K	5%	1/4W
R603	1-249-430-11	CARBON	12K	5%	1/4W
R604	1-249-432-11	CARBON	18K	5%	1/4W
R605	1-249-435-11	CARBON	33K	5%	1/4W
R610	1-249-430-11	CARBON	12K	5%	1/4W
R611	1-249-432-11	CARBON	18K	5%	1/4W
R624	1-249-415-11	CARBON	680	5%	1/4W
		< SWITCH >			
S601	1-762-798-11	SWITCH, KEYBOARD (ALARM)			
S602	1-762-798-11	SWITCH, KEYBOARD (TIMER)			
S603	1-762-798-11	SWITCH, KEYBOARD (SLEEP)			
S604	1-762-798-11	SWITCH, KEYBOARD (DISPLAY, MEM ENT)			
S605	1-762-798-11	SWITCH, KEYBOARD (PLAY MODE, MONO/ST ISS)			
S606	1-762-798-11	SWITCH, KEYBOARD (SOUND)			
S611	1-762-798-11	SWITCH, KEYBOARD (CLOCK)			
S612	1-762-798-11	SWITCH, KEYBOARD (MEGA BASS)			
S613	1-762-798-11	SWITCH, KEYBOARD (START/STOP)			
**********					
*	1-675-293-11	KEY 2 BOARD			
		**********			
		< CONNECTOR >			
* CNP601	1-785-654-11	PIN, CONNECTOR (PC BOARD) 2P			
		< RESISTOR >			
R608	1-249-427-11	CARBON	6.8K	5%	1/4W
R609	1-249-428-11	CARBON	8.2K	5%	1/4W
R612	1-249-435-11	CARBON	33K	5%	1/4W
R613	1-249-439-11	CARBON	68K	5%	1/4W
R614	1-247-885-00	CARBON	180K	5%	1/4W
R615	1-249-427-11	CARBON	6.8K	5%	1/4W
R616	1-249-428-11	CARBON	8.2K	5%	1/4W
R622	1-249-406-11	CARBON	330	5%	1/4W
R623	1-249-411-11	CARBON	120	5%	1/4W
		< SWITCH >			
S609	1-762-798-11	SWITCH, KEYBOARD (■)			
S610	1-762-798-11	SWITCH, KEYBOARD (▶II)			
S614	1-762-798-11	SWITCH, KEYBOARD (I◀◀, CLOCK –)			
S615	1-762-798-11	SWITCH, KEYBOARD (▶▶I, CKOCK +)			
S617	1-762-798-11	SWITCH, KEYBOARD (POWER)			
S618	1-762-798-11	SWITCH, KEYBOARD (STANDBY)			
**********					
*	1-675-294-11	KEY 3 BOARD			
		**********			
		< RESISTOR >			
R617	1-249-430-11	CARBON	12K	5%	1/4W
R618	1-249-432-11	CARBON	18K	5%	1/4W
R619	1-249-435-11	CARBON	33K	5%	1/4W
R620	1-249-439-11	CARBON	68K	5%	1/4W
R621	1-247-885-00	CARBON	180K	5%	1/4W

Ref. No.	Part No.	Description			Remark
		< SWITCH >			
S619	1-762-798-11	SWITCH, KEYBOARD (BAND)			
S620	1-762-798-11	SWITCH, KEYBOARD (VOL +)			
S621	1-762-798-11	SWITCH, KEYBOARD (VOL –)			
S622	1-762-798-11	SWITCH, KEYBOARD (PRESET –)			
S623	1-762-798-11	SWITCH, KEYBOARD (PRESET +)			
S624	1-762-798-11	SWITCH, KEYBOARD (AUTO PRESET)			
**********					
*	A-3322-186-A	LCD BOARD, COMPLETE			
		**********			
*	3-039-322-01	BRACKET (LCD)			
	3-039-334-01	SHEET (LCD), ADHESIVE			
		< CAPACITOR >			
C501	1-127-888-21	CERAMIC	0.1uF	10%	50V
C502	1-162-306-11	CERAMIC	0.01uF	20%	16V
C503	1-124-584-00	ELECT	100uF	20%	10V
C504	1-126-157-11	ELECT	10uF	20%	16V
C505	1-127-888-21	CERAMIC	0.1uF	10%	50V
C506	1-162-205-31	CERAMIC	18PF	5%	50V
C507	1-162-205-31	CERAMIC	18PF	5%	50V
C508	1-127-888-21	CERAMIC	0.1uF	10%	50V
C509	1-127-888-21	CERAMIC	0.1uF	10%	50V
C510	1-127-888-21	CERAMIC	0.1uF	10%	50V
C511	1-127-888-21	CERAMIC	0.1uF	10%	50V
C512	1-128-802-21	CERAMIC	27PF	5%	50V
C513	1-128-803-21	CERAMIC	33PF	5%	50V
C514	1-128-802-21	CERAMIC	27PF	5%	50V
C515	1-128-803-21	CERAMIC	33PF	5%	50V
C516	1-162-306-11	CERAMIC	0.01uF	20%	16V
C517	1-162-306-11	CERAMIC	0.01uF	20%	16V
C518	1-162-282-31	CERAMIC	100PF	10%	50V
C520	1-162-282-31	CERAMIC	100PF	10%	50V
C521	1-162-282-31	CERAMIC	100PF	10%	50V
C522	1-162-290-31	CERAMIC	470PF	10%	50V
C523	1-162-282-31	CERAMIC	100PF	10%	50V
C524	1-162-282-31	CERAMIC	100PF	10%	50V
C525	1-162-282-31	CERAMIC	100PF	10%	50V
C526	1-162-282-31	CERAMIC	100PF	10%	50V
C527	1-162-282-31	CERAMIC	100PF	10%	50V
C528	1-162-282-31	CERAMIC	100PF	10%	50V
C529	1-162-282-31	CERAMIC	100PF	10%	50V
C530	1-162-282-31	CERAMIC	100PF	10%	50V
C531	1-162-282-31	CERAMIC	100PF	10%	50V
C532	1-162-282-31	CERAMIC	100PF	10%	50V
C533	1-162-282-31	CERAMIC	100PF	10%	50V
C534	1-162-306-11	CERAMIC	0.01uF	20%	16V
C535	1-162-282-31	CERAMIC	100PF	10%	50V
C536	1-162-282-31	CERAMIC	100PF	10%	50V
C537	1-162-306-11	CERAMIC	0.01uF	20%	16V
C538	1-162-306-11	CERAMIC	0.01uF	20%	16V
C539	1-162-282-31	CERAMIC	100PF	10%	50V
C540	1-162-282-31	CERAMIC	100PF	10%	50V
C541	1-162-282-31	CERAMIC	100PF	10%	50V
C542	1-162-282-31	CERAMIC	100PF	10%	50V
C543	1-162-282-31	CERAMIC	100PF	10%	50V

LCD **LED** **MAIN**

Ref. No.	Part No.	Description			Remark
C544	1-162-282-31	CERAMIC	100PF	10%	50V
C545	1-162-306-11	CERAMIC	0.01uF	20%	16V
C546	1-162-306-11	CERAMIC	0.01uF	20%	16V
C547	1-162-306-11	CERAMIC	0.01uF	20%	16V
C548	1-162-306-11	CERAMIC	0.01uF	20%	16V
C549	1-162-306-11	CERAMIC	0.01uF	20%	16V
C550	1-162-294-31	CERAMIC	0.001uF	10%	50V
C551	1-162-294-31	CERAMIC	0.001uF	10%	50V
C552	1-162-294-31	CERAMIC	0.001uF	10%	50V
		< CONNECTOR >			
* CNP501	1-785-658-11	PIN, CONNECTOR (PC BOARD) 6P			
		< IC >			
IC501	8-752-909-09	IC CXP83620-011Q			
IC502	8-759-479-70	IC S-81250SGY-B			
IC503	8-759-511-42	IC S-80730AN			
		< COIL >			
L501	1-410-525-11	INDUCTOR	220uH		
L502	1-410-509-11	INDUCTOR	10uH		
L503	1-410-509-11	INDUCTOR	10uH		
		< LIQUID CRYSTAL DISPLAY >			
LCD501	1-803-763-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< TRANSISTOR >			
Q501	8-729-037-34	TRANSISTOR	KRA107M		
Q502	8-729-037-34	TRANSISTOR	KRA107M		
Q503	8-729-922-66	TRANSISTOR	2SC2410SN		
Q504	8-729-922-66	TRANSISTOR	2SC2410SN		
Q505	8-729-036-62	TRANSISTOR	KRC106M-AT		
		< RESISTOR >			
R501	1-249-429-11	CARBON	10K	5%	1/4W
R502	1-249-429-11	CARBON	10K	5%	1/4W
R503	1-249-429-11	CARBON	10K	5%	1/4W
R504	1-249-417-11	CARBON	1K	5%	1/4W
R505	1-249-417-11	CARBON	1K	5%	1/4W
R506	1-249-417-11	CARBON	1K	5%	1/4W
R507	1-249-417-11	CARBON	1K	5%	1/4W
R508	1-249-417-11	CARBON	1K	5%	1/4W
R509	1-249-417-11	CARBON	1K	5%	1/4W
R510	1-249-417-11	CARBON	1K	5%	1/4W
R511	1-249-417-11	CARBON	1K	5%	1/4W
R512	1-249-417-11	CARBON	1K	5%	1/4W
R513	1-249-417-11	CARBON	1K	5%	1/4W
R514	1-249-417-11	CARBON	1K	5%	1/4W
R515	1-249-417-11	CARBON	1K	5%	1/4W
R516	1-249-417-11	CARBON	1K	5%	1/4W
R517	1-249-417-11	CARBON	1K	5%	1/4W
R518	1-249-417-11	CARBON	1K	5%	1/4W
R519	1-249-429-11	CARBON	10K	5%	1/4W
R520	1-249-429-11	CARBON	10K	5%	1/4W
R521	1-249-417-11	CARBON	1K	5%	1/4W
R522	1-249-417-11	CARBON	1K	5%	1/4W
R523	1-249-417-11	CARBON	1K	5%	1/4W
R524	1-249-417-11	CARBON	1K	5%	1/4W
R525	1-249-429-11	CARBON	10K	5%	1/4W
R526	1-249-429-11	CARBON	10K	5%	1/4W
R527	1-249-429-11	CARBON	10K	5%	1/4W
R528	1-249-417-11	CARBON	1K	5%	1/4W
R529	1-249-417-11	CARBON	1K	5%	1/4W
R530	1-249-417-11	CARBON	1K	5%	1/4W
R531	1-249-417-11	CARBON	1K	5%	1/4W
R532	1-249-422-11	CARBON	2.7K	5%	1/4W
R533	1-249-425-11	CARBON	4.7K	5%	1/4W
R534	1-249-441-11	CARBON	100K	5%	1/4W
R535	1-249-441-11	CARBON	100K	5%	1/4W
R536	1-249-441-11	CARBON	100K	5%	1/4W
R537	1-247-883-00	CARBON	150K	5%	1/4W
R538	1-249-437-11	CARBON	47K	5%	1/4W
R539	1-249-437-11	CARBON	47K	5%	1/4W
R540	1-249-437-11	CARBON	47K	5%	1/4W
R541	1-249-429-11	CARBON	10K	5%	1/4W
R542	1-249-429-11	CARBON	10K	5%	1/4W
R543	1-249-429-11	CARBON	10K	5%	1/4W
R544	1-249-429-11	CARBON	10K	5%	1/4W
R545	1-249-429-11	CARBON	10K	5%	1/4W
R546	1-249-429-11	CARBON	10K	5%	1/4W
R547	1-249-429-11	CARBON	10K	5%	1/4W
R548	1-249-429-11	CARBON	10K	5%	1/4W
R549	1-249-429-11	CARBON	10K	5%	1/4W
R550	1-249-429-11	CARBON	10K	5%	1/4W
R551	1-249-429-11	CARBON	10K	5%	1/4W
R552	1-249-417-11	CARBON	1K	5%	1/4W
R553	1-249-437-11	CARBON	47K	5%	1/4W
R554	1-249-429-11	CARBON	10K	5%	1/4W
R555	1-247-895-00	CARBON	470K	5%	1/4W
R556	1-249-437-11	CARBON	47K	5%	1/4W
R557	1-249-417-11	CARBON	1K	5%	1/4W
R560	1-249-429-11	CARBON	10K	5%	1/4W
R561	1-249-429-11	CARBON	10K	5%	1/4W
R562	1-249-411-11	CARBON	330	5%	1/4W
		< VIBRATOR >			
X501	1-767-184-11	VIBRATOR, CERAMIC (4.19MHz)			
X502	1-760-105-11	VIBRATOR, CRYSTAL (32.768kHz)			

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*	A-3328-692-A	LED BOARD, COMPLETE			
		**********			
		< LED >			
D601	8-719-038-29	LED SLP-181B-51 (POWER)			

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*	A-3323-288-A	MAIN BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C2	1-162-306-11	CERAMIC	0.01uF	20%	16V
C3	1-162-306-11	CERAMIC	0.01uF	20%	16V
C4	1-162-306-11	CERAMIC	0.01uF	20%	16V
C5	1-162-306-11	CERAMIC	0.01uF	20%	16V

Ref. No.	Part No.	Description			Remark
C6	1-102-960-00	CERAMIC	24PF	5%	50V
C7	1-162-306-11	CERAMIC	0.01uF	20%	16V
C8	1-162-306-11	CERAMIC	0.01uF	20%	16V
C9	1-162-306-11	CERAMIC	0.01uF	20%	16V
C10	1-162-196-31	CERAMIC	5.6PF	10%	50V
C11	1-128-815-21	CERAMIC	330PF	5%	50V
C13	1-162-306-11	CERAMIC	0.01uF	20%	16V
C14	1-162-306-11	CERAMIC	0.01uF	20%	16V
C41	1-126-934-11	ELECT	220uF	20%	10V
C45	1-126-960-11	ELECT	1uF	20%	50V
C46	1-162-301-11	CERAMIC	0.0015uF	20%	16V
C47	1-162-306-11	CERAMIC	0.01uF	20%	16V
C48	1-126-963-11	ELECT	4.7uF	20%	50V
C49	1-127-879-21	CERAMIC	0.018uF	10%	50V
C50	1-127-879-21	CERAMIC	0.018uF	10%	50V
C51	1-126-960-11	ELECT	1uF	20%	50V
C52	1-126-960-11	ELECT	1uF	20%	50V
C53	1-126-960-11	ELECT	1uF	20%	50V
C54	1-162-288-31	CERAMIC	330PF	10%	50V
C55	1-162-600-11	CERAMIC	0.0047uF	20%	16V
C56	1-126-959-11	ELECT	0.47uF	20%	50V
C57	1-127-888-21	CERAMIC	0.1uF	10%	50V
C58	1-162-306-11	CERAMIC	0.01uF	20%	16V
C59	1-127-888-21	CERAMIC	0.1uF	10%	50V
C61	1-162-198-31	CERAMIC	8.2PF	10%	50V
C62	1-162-199-31	CERAMIC	10PF	5%	50V
C63	1-136-171-00	MYLAR	0.33uF	5%	50V
C64	1-126-925-11	ELECT	470uF	20%	10V
C65	1-127-888-21	CERAMIC	0.1uF	10%	50V
C66	1-162-306-11	CERAMIC	0.01uF	20%	16V
C67	1-162-294-31	CERAMIC	0.001uF	10%	50V
C68	1-162-306-11	CERAMIC	0.01uF	20%	16V
C69	1-161-494-00	CERAMIC	0.022uF		25V
C70	1-162-282-31	CERAMIC	100PF	10%	50V
C71	1-162-282-31	CERAMIC	100PF	10%	50V
C72	1-162-282-31	CERAMIC	100PF	10%	50V
C73	1-162-294-31	CERAMIC	0.001uF	10%	50V
C81	1-162-306-11	CERAMIC	0.01uF	20%	16V
C84	1-127-888-21	CERAMIC	0.1uF	10%	50V
C88	1-162-306-11	CERAMIC	0.01uF	20%	16V
C101	1-127-866-21	CERAMIC	1500PF	10%	50V
C102	1-104-664-11	ELECT	47uF	20%	10V
C103	1-127-883-21	CERAMIC	0.039uF	10%	50V
C104	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C105	1-162-282-31	CERAMIC	100PF	10%	50V
C106	1-126-964-11	ELECT	10uF	20%	50V
C121	1-162-301-11	CERAMIC	0.0015uF	20%	16V
C122	1-126-964-11	ELECT	10uF	20%	50V
C123	1-127-884-21	CERAMIC	0.047uF	10%	50V
C124	1-127-884-21	CERAMIC	0.047uF	10%	50V
C125	1-127-876-21	CERAMIC	0.01uF	10%	50V
C126	1-126-964-11	ELECT	10uF	20%	50V
C201	1-127-866-21	CERAMIC	1500PF	10%	50V
C202	1-104-664-11	ELECT	47uF	20%	10V
C203	1-127-883-21	CERAMIC	0.039uF	10%	50V
C204	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C205	1-162-282-31	CERAMIC	100PF	10%	50V
C206	1-126-964-11	ELECT	10uF	20%	50V

Ref. No.	Part No.	Description			Remark
C221	1-162-301-11	CERAMIC	0.0015uF	20%	16V
C222	1-126-964-11	ELECT	10uF	20%	50V
C223	1-127-884-21	CERAMIC	0.047uF	10%	50V
C224	1-127-884-21	CERAMIC	0.047uF	10%	50V
C225	1-127-876-21	CERAMIC	0.01uF	10%	50V
C226	1-126-964-11	ELECT	10uF	20%	50V
C301	1-104-665-11	ELECT	100uF	20%	10V
C302	1-104-665-11	ELECT	100uF	20%	10V
C303	1-104-665-11	ELECT	100uF	20%	10V
C304	1-162-294-31	CERAMIC	0.001uF	10%	50V
C305	1-162-306-11	CERAMIC	0.01uF	20%	16V
C306	1-126-964-11	ELECT	10uF	20%	50V
C317	1-162-282-31	CERAMIC	100PF	10%	50V
C318	1-162-282-31	CERAMIC	100PF	10%	50V
C321	1-126-961-11	ELECT	2.2uF	20%	50V
C322	1-104-664-11	ELECT	47uF	20%	10V
C323	1-104-665-11	ELECT	100uF	20%	10V
C324	1-126-934-11	ELECT	220uF	20%	10V
C325	1-126-964-11	ELECT	10uF	20%	50V
C327	1-127-880-21	CERAMIC	0.022uF	10%	50V
C328	1-127-880-21	CERAMIC	0.022uF	10%	50V
C330	1-162-282-31	CERAMIC	100PF	10%	50V
C331	1-162-282-31	CERAMIC	100PF	10%	50V
C332	1-162-294-31	CERAMIC	0.001uF	10%	50V
C333	1-126-960-11	ELECT	1uF	20%	50V
C334	1-126-964-11	ELECT	10uF	20%	50V
C335	1-126-964-11	ELECT	10uF	20%	50V
C336	1-127-888-21	CERAMIC	0.1uF	10%	50V
C361	1-127-880-21	CERAMIC	0.022uF	10%	50V
C362	1-126-934-11	ELECT	220uF	20%	16V
C363	1-162-306-11	CERAMIC	0.01uF	20%	16V
C364	1-162-306-11	CERAMIC	0.01uF	10%	50V

< FILTER >

CF1	1-760-738-61	FILTER, CERAMIC
CF3	1-781-171-11	DISCRIMINATOR, CERAMIC
CF4	1-781-344-11	FILTER, AM CERAMIC

< CONNECTOR >

*	CNP1	1-785-654-11	PIN, CONNECTOR (PC BOARD) 2P
*	CNP302	1-785-656-11	PIN, CONNECTOR (PC BOARD) 4P
*	CNP303	1-785-657-11	PIN, CONNECTOR (PC BOARD) 5P
*	CNP304	1-785-657-11	PIN, CONNECTOR (PC BOARD) 5P
*	CNP305	1-785-663-11	PIN, CONNECTOR (PC BOARD) 11P
*	CNP306	1-785-664-11	PIN, CONNECTOR (PC BOARD) 12P
*	CNP307	1-785-661-11	PIN, CONNECTOR (PC BOARD) 9P
*	CNP308	1-785-658-21	PIN, CONNECTOR (PC BOARD) 6P
*	CNP309	1-785-658-11	PIN, CONNECTOR (PC BOARD) 6P
*	CNP310	1-564-778-11	PLUG, CONNECTOR (2.5MM) 4P
*	CNP311	1-564-778-11	PLUG, CONNECTOR (2.5MM) 4P
*	CNP312	1-785-656-21	PIN, CONNECTOR (PC BOARD) 4P

< TRIMMER >

CT1	1-141-603-11	CAP, ADJ
CT2	1-141-601-11	CAP, ADJ

MAIN

Ref. No.	Part No.	Description			Remark
		< DIODE >			
D1	8-719-050-72	DIODE KV1370NT			
D2	8-719-050-72	DIODE KV1370NT			
D3	8-719-050-69	DIODE KV1520N			
D10	8-719-991-33	DIODE 1SS133T-77			
D11	8-719-991-33	DIODE 1SS133T-77			
D12	8-719-991-33	DIODE 1SS133T-77			
D321	8-719-991-33	DIODE 1SS133T-77			
D322	8-719-991-33	DIODE 1SS133T-77			
D361	8-719-991-33	DIODE 1SS133T-77			
D362	8-719-991-33	DIODE 1SS133T-77			
D363	8-719-991-33	DIODE 1SS133T-77			
D366	8-719-109-89	DIODE RD5.6ESB2			
		< BAND-PASS FILTER >			
FL2	1-236-711-21	FILTER, BAND PASS			
		< IC >			
IC1	8-759-644-86	IC TA2104BN			
IC2	8-759-549-57	IC LC72137-D			
IC301	8-759-264-71	IC TA2068N			
IC302	8-759-432-41	IC BH3854AS			
		< COIL >			
L1	1-409-905-31	COIL, FM RF			
L2	1-409-904-31	COIL, FM OSC			
L3	1-501-923-11	ANTENNA, FERRITE-ROD (AM)			
L4	1-411-234-21	COIL, AM OSC			
		< TRANSISTOR >			
Q1	8-729-036-77	TRANSISTOR	KRC107M		
Q2	8-729-036-77	TRANSISTOR	KRC107M		
Q3	8-729-106-07	FET	2SK514-H		
Q301	8-729-036-62	TRANSISTOR	KRC106M-AT		
Q302	8-729-036-95	TRANSISTOR	KTC3198GR		
Q303	8-729-036-80	TRANSISTOR	KRC110M		
Q361	8-729-037-13	TRANSISTOR	KTA1271Y		
Q362	8-729-036-62	TRANSISTOR	KRC106M-AT		
Q363	8-729-037-13	TRANSISTOR	KTA1271Y		
Q364	8-729-801-84	TRANSISTOR	2SB1013-4		
Q365	8-729-036-62	TRANSISTOR	KRC106M-AT		
Q366	8-729-036-62	TRANSISTOR	KRC106M-AT		
Q367	8-729-026-39	TRANSISTOR	2SA933AS-QT		
Q368	8-729-026-39	TRANSISTOR	2SA933AS-QT		
Q369	8-729-026-39	TRANSISTOR	2SA933AS-QT		
Q370	8-729-036-62	TRANSISTOR	KRC106M-AT		
Q371	8-729-036-62	TRANSISTOR	KRC106M-AT		
Q372	8-729-036-62	TRANSISTOR	KRC106M-AT		
Q373	8-729-036-89	TRANSISTOR	KTC3198GR-AT		
Q374	8-729-037-19	TRANSISTOR	KRA106M-AT		
		< RESISTOR >			
R1	1-249-397-11	CARBON	22	5% 1/4W	
R3	1-249-398-11	CARBON	27	5% 1/4W	
R4	1-249-421-11	CARBON	2.2K	5% 1/4W	
R5	1-249-431-11	CARBON	15K	5% 1/4W	
R6	1-249-409-11	CARBON	220	5% 1/4W	

Ref. No.	Part No.	Description			Remark
R7	1-247-903-00	CARBON	1M	5% 1/4W	
R8	1-249-441-11	CARBON	100K	5% 1/4W	
R9	1-249-429-11	CARBON	10K	5% 1/4W	
R10	1-247-887-00	CARBON	220K	5% 1/4W	
R20	1-249-411-11	CARBON	330	5% 1/4W	
R21	1-249-429-11	CARBON	10K	5% 1/4W	
R23	1-249-437-11	CARBON	47K	5% 1/4W	
R24	1-247-843-11	CARBON	3.3K	5% 1/4W	
R25	1-249-421-11	CARBON	2.2K	5% 1/4W	
R51	1-249-416-11	CARBON	820	5% 1/4W	
R52	1-247-843-11	CARBON	3.3K	5% 1/4W	
R53	1-249-417-11	CARBON	1K	5% 1/4W	
R54	1-249-430-11	CARBON	12K	5% 1/4W	
R55	1-249-429-11	CARBON	10K	5% 1/4W	
R56	1-249-417-11	CARBON	1K	5% 1/4W	
R58	1-249-417-11	CARBON	1K	5% 1/4W	
R59	1-249-417-11	CARBON	1K	5% 1/4W	
R60	1-249-429-11	CARBON	10K	5% 1/4W	
R61	1-249-417-11	CARBON	1K	5% 1/4W	
R62	1-249-417-11	CARBON	1K	5% 1/4W	
R63	1-249-417-11	CARBON	1K	5% 1/4W	
R64	1-249-417-11	CARBON	1K	5% 1/4W	
R65	1-249-417-11	CARBON	1K	5% 1/4W	
R66	1-249-417-11	CARBON	1K	5% 1/4W	
R67	1-249-429-11	CARBON	10K	5% 1/4W	
R101	1-249-431-11	CARBON	15K	5% 1/4W	
R102	1-249-404-00	CARBON	82	5% 1/4W	
R103	1-249-441-11	CARBON	100K	5% 1/4W	
R104	1-247-843-11	CARBON	3.3K	5% 1/4W	
R105	1-249-417-11	CARBON	1K	5% 1/4W	
R106	1-249-417-11	CARBON	1K	5% 1/4W	
R107	1-249-429-11	CARBON	10K	5% 1/4W	
R108	1-249-433-11	CARBON	22K	5% 1/4W	
R109	1-249-418-11	CARBON	1.2K	5% 1/4W	
R110	1-249-425-11	CARBON	4.7K	5% 1/4W	
R121	1-249-425-11	CARBON	4.7K	5% 1/4W	
R141	1-249-428-11	CARBON	8.2K	5% 1/4W	
R145	1-249-437-11	CARBON	47K	5% 1/4W	
R151	1-247-887-00	CARBON	220K	5% 1/4W	
R201	1-249-431-11	CARBON	15K	5% 1/4W	
R202	1-249-404-00	CARBON	82	5% 1/4W	
R203	1-249-441-11	CARBON	100K	5% 1/4W	
R204	1-247-843-11	CARBON	3.3K	5% 1/4W	
R205	1-249-417-11	CARBON	1K	5% 1/4W	
R206	1-249-417-11	CARBON	1K	5% 1/4W	
R207	1-249-429-11	CARBON	10K	5% 1/4W	
R208	1-249-433-11	CARBON	22K	5% 1/4W	
R209	1-249-418-11	CARBON	1.2K	5% 1/4W	
R210	1-249-425-11	CARBON	4.7K	5% 1/4W	
R221	1-249-425-11	CARBON	4.7K	5% 1/4W	
R241	1-249-428-11	CARBON	8.2K	5% 1/4W	
R245	1-249-437-11	CARBON	47K	5% 1/4W	
R251	1-247-887-00	CARBON	220K	5% 1/4W	
R301	1-247-903-00	CARBON	1M	5% 1/4W	
R302	1-249-417-11	CARBON	1K	5% 1/4W	
R303	1-249-429-11	CARBON	10K	5% 1/4W	
R304	1-249-429-11	CARBON	10K	5% 1/4W	
R305	1-249-417-11	CARBON	1K	5% 1/4W	

Ref. No.	Part No.	Description			Remark
R321	1-249-399-11	CARBON	33	5%	1/4W
R322	1-249-417-11	CARBON	1K	5%	1/4W
R323	1-249-417-11	CARBON	1K	5%	1/4W
R324	1-249-417-11	CARBON	1K	5%	1/4W
R325	1-249-417-11	CARBON	1K	5%	1/4W
R327	1-247-895-00	CARBON	470K	5%	1/4W
R328	1-249-418-11	CARBON	1.2K	5%	1/4W
R329	1-249-411-11	CARBON	330	5%	1/4W
R330	1-247-903-00	CARBON	1M	5%	1/4W
R331	1-249-426-11	CARBON	5.6K	5%	1/4W
R332	1-249-431-11	CARBON	15K	5%	1/4W
R361	1-249-437-11	CARBON	47K	5%	1/4W
R362	1-249-417-11	CARBON	1K	5%	1/4W
R364	1-249-437-11	CARBON	47K	5%	1/4W
R365	1-249-417-11	CARBON	1K	5%	1/4W
R366	1-249-429-11	CARBON	10K	5%	1/4W
R367	1-249-413-11	CARBON	470	5%	1/4W
R369	1-249-429-11	CARBON	10K	5%	1/4W
R372	1-249-443-11	CARBON	22K	5%	1/4W
R373	1-249-443-11	CARBON	22K	5%	1/4W
R374	1-249-443-11	CARBON	22K	5%	1/4W
R375	1-249-429-11	CARBON	10K	5%	1/4W
R376	1-249-429-11	CARBON	10K	5%	1/4W
R377	1-249-429-11	CARBON	10K	5%	1/4W
R381	1-249-441-11	CARBON	100K	5%	1/4W
R382	1-249-417-11	CARBON	1K	5%	1/4W
R383	1-249-441-11	CARBON	100K	5%	1/4W
R384	1-249-417-11	CARBON	1K	5%	1/4W
R385	1-249-441-11	CARBON	100K	5%	1/4W
R386	1-249-417-11	CARBON	1K	5%	1/4W
R388	1-249-425-11	CARBON	4.7K	5%	1/4W
		< TRANSFORMER >			
T1	1-433-741-11	TRANSFORMER, IF			
		< VIBRATOR >			
X1	1-781-592-11	CRYSTAL (75kHz)			

****

*	A-3322-177-A	POWER BOARD, COMPLETE			
		**********			
	7-685-547-14	SCREW +BTP 3X10 TYPE2 N-S			
		< CAPACITOR >			
C141	1-126-960-11	ELECT	1uF	20%	50V
C142	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C143	1-126-927-11	ELECT	2200uF	20%	10V
C144	1-162-306-11	CERAMIC	0.01uF	20%	16V
C241	1-126-960-11	ELECT	1uF	20%	50V
C242	1-162-302-11	CERAMIC	0.0022uF	20%	16V
C243	1-126-927-11	ELECT	2200uF	20%	10V
C244	1-162-306-11	CERAMIC	0.01uF	20%	16V
C341	1-126-963-11	ELECT	4.7uF	20%	50V
C342	1-104-665-11	ELECT	100uF	20%	10V
C343	1-162-294-31	CERAMIC	0.001uF	10%	50V
C344	1-162-294-31	CERAMIC	0.001uF	10%	50V
C345	1-162-294-31	CERAMIC	0.001uF	10%	50V
C346	1-162-294-31	CERAMIC	0.001uF	10%	50V
C351	1-162-306-11	CERAMIC	0.01uF	20%	16V
C352	1-162-306-11	CERAMIC	0.01uF	20%	16V
C353	1-104-665-11	ELECT	100uF	20%	10V
C354	1-162-306-11	CERAMIC	0.01uF	20%	16V
C355	1-162-306-11	CERAMIC	0.01uF	20%	16V
C356	1-126-934-11	ELECT	220uF	20%	10V
C357	1-128-547-11	ELECT	6800uF	20%	16V
C901	1-161-494-00	CERAMIC	0.022uF		25V
C902	1-161-494-00	CERAMIC	0.022uF		25V
C903	1-161-494-00	CERAMIC	0.022uF		25V
C904	1-161-494-00	CERAMIC	0.022uF		25V
C905	1-162-306-11	CERAMIC	0.01uF	20%	16V
C906	1-162-306-11	CERAMIC	0.01uF	20%	16V
C907	1-126-964-11	ELECT	10uF	20%	50V
		< CONNECTOR >			
* CNP351	1-785-657-11	PIN, CONNECTOR (PC BOARD) 5P			
		< DIODE >			
D351	8-719-109-97	DIODE RD6.8ES-B2			
D352	8-719-109-89	DIODE RD5.6ESB2			
D353	8-719-991-33	DIODE 1SS133T-77			
D901	8-719-200-02	DIODE 10E2			
D902	8-719-200-02	DIODE 10E2			
D903	8-719-200-02	DIODE 10E2			
D904	8-719-200-02	DIODE 10E2			
D905	8-719-200-02	DIODE 10E2			
D906	8-719-981-95	DIODE MTZJ-2.7B			
D907	8-719-049-26	DIODE RB721Q			
D908	8-719-991-33	DIODE 1SS133T-77			
D909	8-719-991-33	DIODE 1SS133T-77			
D910	8-719-991-33	DIODE 1SS133T-77			
D911	8-719-991-33	DIODE 1SS133T-77			
D912	8-719-991-33	DIODE 1SS133T-77			
		< IC >			
IC303	8-759-543-56	IC LA4601N			
		< JACK >			
J301	1-566-891-11	JACK (🎧)			
⚠J901	1-540-009-11	INLET, AC (AC IN ∿)			
		< TRANSISTOR >			
Q341	8-729-036-62	TRANSISTOR	KRC106M-AT		
Q351	8-729-801-84	TRANSISTOR	2SB1013-4		
Q352	8-729-036-62	TRANSISTOR	KRC106M-AT		
Q353	8-729-021-82	TRANSISTOR	2SD2396K		
Q354	8-729-036-86	TRANSISTOR	KTC3203Y-AT		
		< RESISTOR >			
R142	1-249-413-11	CARBON	470	5%	1/4W
R143	1-249-417-11	CARBON	1K	5%	1/4W
R144	1-247-807-31	CARBON	100	5%	1/4W
R242	1-249-413-11	CARBON	470	5%	1/4W
R243	1-249-417-11	CARBON	1K	5%	1/4W
R244	1-247-807-31	CARBON	100	5%	1/4W

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

POWER | REC SW

Ref. No.	Part No.	Description			Remark
R341	1-247-807-31	CARBON	100	5%	1/4W
R342	1-249-417-11	CARBON	1K	5%	1/4W
R351	1-249-437-11	CARBON	47K	5%	1/4W
R352	1-249-417-11	CARBON	1K	5%	1/4W
R353	1-247-815-91	CARBON	220	5%	1/4W
R354	1-249-429-11	CARBON	10K	5%	1/4W
R355	1-247-815-91	CARBON	220	5%	1/4W
R356	1-247-807-31	CARBON	100	5%	1/4W
R901	1-247-807-31	CARBON	100	5%	1/4W
R902	1-247-807-31	CARBON	100	5%	1/4W
⚠R903	1-249-387-11	CARBON	3.3	5%	1/4W F
		< TRANSFORMER >			
⚠T901	1-431-230-11	TRANSFORMER, POWER (US, E92, MX)			
⚠T901	1-431-230-21	TRANSFORMER, POWER (CND)			
**********					
*	A-3322-176-A	REC SW BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C311	1-162-292-31	CERAMIC	680PF	10%	50V
C312	1-104-664-11	ELECT	47uF	20%	10V
C313	1-137-431-11	MYLAR	560PF	5%	50V
C314	1-162-284-31	CERAMIC	150PF	10%	50V
C315	1-162-285-31	CERAMIC	180PF	10%	50V
C316	1-127-888-21	CERAMIC	0.1uF	10%	50V
		< CONNECTOR >			
* CNP301	1-785-656-11	PIN, CONNECTOR (PC BOARD) 4P			
		< TRANSISTOR >			
Q311	8-729-281-53	TRANSISTOR	2SC1815-GR		
Q312	8-729-281-53	TRANSISTOR	2SC1815-GR		
Q313	8-729-281-53	TRANSISTOR	2SC1815-GR		
		< RESISTOR >			
R311	1-249-408-11	CARBON	180	5%	1/4W
R312	1-249-435-11	CARBON	33K	5%	1/4W
R313	1-249-393-11	CARBON	10	5%	1/4W
R314	1-249-441-11	CARBON	100K	5%	1/4W
R315	1-249-425-11	CARBON	4.7K	5%	1/4W
R316	1-249-425-11	CARBON	4.7K	5%	1/4W
		< SWITCH >			
S301	1-762-565-11	SWITCH, SLIDE (REC/PB)			

Ref. No.	Part No.	Description	Remark
		< TRANSFORMER >	
T311	1-416-041-11	TRANSFORMER, BIAS OSCILLATION	
**********			
		MISCELLANEOUS	
		**********	
55	1-790-242-11	WIRE (FLAT TYPE) (16 CORE)	
59	1-452-899-11	MAGNET	
⚠301	8-848-483-05	OPTICAL PICK-UP KSS-213C	
306	X-2626-202-1	CHASSIS ASSY (MB) (RP), MOTOR (SPINDLE) (INCLUDING M701)	
ANT1	1-501-820-11	ANTENNA, TELESCOPIC (FM)	
HE301	1-543-876-11	HEAD (ERASE)	
HRP301	1-500-454-11	HEAD, MAGNETIC (RECORD/PLAYBACK)	
M301	A-3320-446-A	MOTOR ASSY (WITH PULLY) (CAPSTAN/REEL)	
M702	X-2625-769-1	GEAR ASSY (MB), MOTOR (SLED)	
S303	1-762-679-11	SWITCH, LEAF (MOTOR ON/OFF)	
S304	1-771-059-11	SWITCH, LEAF (TAPE PLAY)	
S701	1-692-960-11	SWITCH, PUSH (1 KEY) (CD DOOR OPEN/CLOSE)	
SP101	1-529-478-11	SPEAKER (L ch)	
SP201	1-529-478-11	SPEAKER (R ch)	
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		**********	
		HARDWARE LIST	
		**********	
#1	7-685-548-19	SCREW +BTP 3X12 TYPE2 N-S	
#2	7-685-547-14	SCREW +BTP 3X10 TYPE2 N-S	
#3	7-685-133-01	SCREW +P 2.6X6 TYPE1	
#5	7-685-534-14	SCREW +BTP 2.6X8 TYPE2 N-S	
#6	7-685-853-04	SCREW +BVTT 2X6 (S)	
#7	7-685-135-19	SCREW +P 2.6X10 TYPE2 SLIT	
#8	7-682-149-13	SCREW +P 3X10	
#9	7-685-105-19	SCREW +P 2X8 TYPE2, NON-SLIT	
#10	7-685-783-09	SCREW +PTT 2X6 (S)	
#11	7-621-770-87	SCREW +B 2.6X5	
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		ACCESSORIES & PACKING MATERIALS	
		**********	
⚠	1-590-342-11	CORD, POWER (E92, MX)	
⚠	1-783-878-11	CORD, POWER (US, CND)	
	3-867-446-11	MANUAL, INSTRUCTION (ENGLISH) (US, CND, E92, MX)	
	3-867-446-21	MANUAL, INSTRUCTION (FRENCH) (CND)	
	3-867-446-31	MANUAL, INSTRUCTION (SPANISH) (E92, MX)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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